

# Advanced Education and Training in Bioenergy in Europe



Bioenergy NoE



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# Masters and PhD Courses in EU countries

A synopsis of current education and training provisions in bioenergy at Masters and PhD levels in EU countries.

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## Key










Denotes course run by an association of at least two institutions






# Masters courses

Masters courses in English in bioenergy or with significant bioenergy content in EU countries considered 2009


INSTITUTION(s)	COURSE TITLE	WEBSITE
<b>AUSTRIA</b> 		
University of Applied Science, Burgenland.	Sustainable Energy Systems.	<a href="http://www.fh-burgenland.at/Pinkafeld/NESMag/studium.asp">http://www.fh-burgenland.at/Pinkafeld/NESMag/studium.asp</a>
University of Leoben, Styria.	Natural Resources with the main area: Raw materials and Energy Systems.	<a href="http://www.mu-leoben.at/index.php?option=com_content&amp;task=view&amp;id=11&amp;Itemid=417">http://www.mu-leoben.at/index.php?option=com_content&amp;task=view&amp;id=11&amp;Itemid=417</a>
University of Natural Resources and Applied Life Sciences, Vienna.	<ul style="list-style-type: none"> <li>• Agricultural and Food Economics (H 457)</li> <li>• Applied Plant Sciences (H 455)</li> <li>• Agro Biology (H 459)</li> <li>• Biotechnology (H 418)</li> <li>• Environmental Engineering (H 431)</li> <li>• Forest Science (H 425)</li> <li>• Land Management and Civil Engineering (H 433)</li> <li>• Management of Environment and Bio Resources (H 427)</li> <li>• Wood Technology and Management (H 426)</li> </ul>	<a href="http://www.boku.ac.at/707.html?&amp;L=1">http://www.boku.ac.at/707.html?&amp;L=1</a>
University of Natural Resources and Applied Life Sciences, Vienna in cooperation with the ELLS Universities (BOKU, Royal Veterinary and Agricultural University Denmark, University Hohenheim and Swedish University of Agricultural Science).	Environmental Sciences – Soil, Water and Biodiversity (ENVEURO).	<a href="http://www.boku.ac.at/707.html?&amp;L=1">http://www.boku.ac.at/707.html?&amp;L=1</a>
University of Natural Resources and Applied Life Sciences, Vienna in cooperation with Lincoln University, New Zealand and Czech University of Life Sciences, Prague and Czech Republic.	Natural Resources Management and Ecological Engineering (NARMEE).	<a href="http://static.boku.ac.at/narmee/Narmee%20Concept%20of%20the%20Programme%20Feb09.pdf">http://static.boku.ac.at/narmee/Narmee%20Concept%20of%20the%20Programme%20Feb09.pdf</a>  <a href="http://static.boku.ac.at/narmee/">http://static.boku.ac.at/narmee/</a>
University of Natural Resources and Applied Life Sciences, Vienna in cooperation with the ELLS universities (BOKU, Royal Veterinary and Agricultural University Copenhagen,	Safety in the Food Chain (H 451).	<a href="http://www.boku.ac.at/8170.html?&amp;L=1">http://www.boku.ac.at/8170.html?&amp;L=1</a>  <a href="http://www.safetyinthefoodchain.com">http://www.safetyinthefoodchain.com</a>

	Wageningen University and Research Centre, Universität Hohenheim and Swedish University of Agricultural Sciences), as well as University of Laibach.		
	University of Natural Resources and Applied Life Sciences, Vienna.	Material and Energetic use of Renewable Resources (NAWARO).	<a href="http://www.boku.ac.at/12981.html?&amp;L=0">http://www.boku.ac.at/12981.html?&amp;L=0</a>
	<b>DENMARK</b>		
	Aalborg University.	Sustainable Energy Engineering.	<a href="http://en.aau.dk/About+Aalborg+University/University+Structure/Departments/Specific+Department/555949">http://en.aau.dk/About+Aalborg+University/University+Structure/Departments/Specific+Department/555949</a>
	Technical University of Denmark	Biotechnology. Study lines include Biofuels.	<a href="http://www.dtu.dk/English/education/MSc_Programs/Biot_echnology.aspx">http://www.dtu.dk/English/education/MSc_Programs/Biot_echnology.aspx</a>
	Technical University of Denmark	Sustainable Energy.	<a href="http://www.dtu.dk/English/education/MSc_Programs/Sustainable%20Energy.aspx">http://www.dtu.dk/English/education/MSc_Programs/Sustainable%20Energy.aspx</a>
	<b>ESTONIA</b>		
	Estonian University of Life Science	Renewable Energy Resources	<a href="http://www.emu.ee/4901">http://www.emu.ee/4901</a>
	<b>FINLAND</b>		
	Finnish-Russian Cross-Border University CBU Project Coordinator: University of Joensuu Partners: Lappeenranta University of Technology, University of Helsinki, Petrozavodsk State University and St. Petersburg State Polytechnical University.	Forestry and Environmental Engineering (contains at least two bioenergy modules).	<a href="http://cbu.fi/en/">http://cbu.fi/en/</a>
	Lappeenranta University of Technology and University of Joensuu.	Bioenergy Technology.	<a href="http://www.lut.fi/en/technology/lutenergy/environment/studies/Pages/Default.aspx">http://www.lut.fi/en/technology/lutenergy/environment/studies/Pages/Default.aspx</a>
	Coordinator: University of Jyväskylä, Partners: University of Vaasa and VTT.	Renewable Energy.	<a href="http://www.jyu.fi/science/laitokset/kemia/muut%20yksikot/ue/">http://www.jyu.fi/science/laitokset/kemia/muut%20yksikot/ue/</a>
	<b>FRANCE</b>		
	École des Mines de Paris ParisTech, Center of Energy and Process.	Renewable Energy.	<a href="http://www.ensmp.fr/masteres/consultation.php?id=461">http://www.ensmp.fr/masteres/consultation.php?id=461</a>
	ISAB-IGAL-Institut Supérieur d'Agriculture de Beauvais.	Agriculture, Agrobusiness and Bioresources.	<a href="http://www.lasalle-beauvais.fr/">http://www.lasalle-beauvais.fr/</a>

	University Paris Est, Marne-La-Vallée.	Energy, option in renewable energy.	<a href="http://www.univ-mlv.fr/fr/index.php?rub=enseignement&amp;srub=orgaetud&amp;ssrub=formation&amp;type=licence%20professionnelle&amp;formatio n=133">http://www.univ-mlv.fr/fr/index.php?rub=enseignement&amp;srub=orgaetud&amp;ssrub=formation&amp;type=licence%20professionnelle&amp;formatio n=133</a>
	Polytech'Savoie, University of Savoie, Le Bourget Du Lac.	Ecotechniques speciality recovery of renewable energy and waste.	<a href="http://www.polytech.univ-savoie.fr/index.php?id=93">http://www.polytech.univ-savoie.fr/index.php?id=93</a>
	Ecole Nationale Supérieur d'Arts et Metiers, Corse.	Renewable energy and production system.	<a href="http://www.bastia.ensam.fr/e.php?lsd=142x146x160&amp;tc=5">http://www.bastia.ensam.fr/e.php?lsd=142x146x160&amp;tc=5</a>
	<b>GERMANY</b>		
	Albert-Ludwigs-Universität, Freiburg.	Renewable Energy Management.	<a href="http://www.zee-uni-freiburg.de/index.php?id=26">http://www.zee-uni-freiburg.de/index.php?id=26</a>
	BTU Cottbus (Brandenburg University of Technology).	Energy from biomass and waste.	<a href="http://www.tu-cottbus.de/btu/en/studies/programmes/master-studiengaenge.html">http://www.tu-cottbus.de/btu/en/studies/programmes/master-studiengaenge.html</a>
	Carl-von-Ossietzky University, Oldenburg	Renewable Energy.	<a href="http://www.ppre.de/">http://www.ppre.de/</a>
	Hamburg University of Technology (TUHH).	Biochemical and Chemical Engineering.	<a href="http://www.tu-hamburg.de/education/master/bcce/course.html">http://www.tu-hamburg.de/education/master/bcce/course.html</a>
	RWTH Aachen University, Department of Technology Research Group Bioenergy.	Course of R&D with a broad range of options for Master and PhD candidates on biogas and bio-hydrogen.	<a href="http://www.biotec.rwth-aachen.de/english/bioenergy.htm">http://www.biotec.rwth-aachen.de/english/bioenergy.htm</a>
	Stuttgart University.	Environmental Engineering, WASTE, Solid Waste specialisation 2002.	<a href="http://www.waste.uni-stuttgart.de/index.php?doc=/home.html">http://www.waste.uni-stuttgart.de/index.php?doc=/home.html</a>
	Ulm University.	Energy Science and Technology.	<a href="http://www.uni-ulm.de/index.php?id=6675">http://www.uni-ulm.de/index.php?id=6675</a>
	University of Applied Sciences, Offenburg.	Energy Conversion and Management 2000.	<a href="http://fh-offenburg.de/graduate-school/ecm">http://fh-offenburg.de/graduate-school/ecm</a>
	University of Flensburg.	Sustainable Energy Systems and Management (SESAM) 1999.	<a href="http://www.uni-flensburg.de/sesam/index.htm">http://www.uni-flensburg.de/sesam/index.htm</a>
	<b>ICELAND</b>		
	School for Renewable Energy (in association with University of Iceland and University of Akureyri ).	Renewable Energy Science.	<a href="http://www.res.is/">http://www.res.is/</a>
	<b>IRELAND</b>		
	Dundalk Institute of Technology School of Engineering	Renewable Energy Systems	<a href="http://ww2.dkit.ie/schools_and_departments/engineering/electronic_mechanical_engineering/courses/dk942">http://ww2.dkit.ie/schools_and_departments/engineering/electronic_mechanical_engineering/courses/dk942</a>

<b>ITALY</b>			
Politecnico di Milano	Renewable Energy and Advanced Energy Systems	<a href="https://www4.ceda.polimi.it/manifesti/manifesti/controller/ManifestoPublic.do?evn_dettaglioIng=EVENTO&amp;c_insegn=075895&amp;semestre=2&amp;a=2009&amp;k_cf=7&amp;k_corso_la=181&amp;ac_ins=0&amp;k_indir=EN1&amp;lang=en&amp;tipoFac=l&amp;tipoCorso=ALL_TIPO_CORSO&amp;semestre=ALL_SEMESTRI&amp;jaf_currentWFID=main">https://www4.ceda.polimi.it/manifesti/manifesti/controller/ManifestoPublic.do?evn_dettaglioIng=EVENTO&amp;c_insegn=075895&amp;semestre=2&amp;a=2009&amp;k_cf=7&amp;k_corso_la=181&amp;ac_ins=0&amp;k_indir=EN1&amp;lang=en&amp;tipoFac=l&amp;tipoCorso=ALL_TIPO_CORSO&amp;semestre=ALL_SEMESTRI&amp;jaf_currentWFID=main</a>	
<b>NETHERLANDS</b>			
Eindhoven University of Technology (TUE), University Twente (UT) and Delft University of Technology (TUD).	Sustainable Energy Technology 2006.	<a href="http://set.graduate.utwente.nl/">http://set.graduate.utwente.nl/</a>	
University of Groningen (RUG).	Energy and Environmental Sciences. Two specialisations: <ul style="list-style-type: none"> <li>• Energy and Environmental Sciences (IVEM)</li> <li>• Experimental studies of greenhouse gases and climate history (CIO) 2002</li> </ul>	<a href="http://www.rug.nl/prospectiveStudents/degreeProgrammes/mastersProgrammes/masters/croho60608">http://www.rug.nl/prospectiveStudents/degreeProgrammes/mastersProgrammes/masters/croho60608</a>	
Utrecht University.	Energy Science.	<a href="http://www.internationalmasters.uu.nl/index.cfm/site/International%20Masters/pageid/821DD49E-E081-2E3C-90F5CFB5862BB962/index.cfm">http://www.internationalmasters.uu.nl/index.cfm/site/International%20Masters/pageid/821DD49E-E081-2E3C-90F5CFB5862BB962/index.cfm</a>	
Utrecht University.	Sustainable Development.	<a href="http://www.internationalmasters.uu.nl/index.cfm/site/International%20Masters/pageid/821EAA6C-E081-2E3C-9020907D5CC456F8/index.cfm">http://www.internationalmasters.uu.nl/index.cfm/site/International%20Masters/pageid/821EAA6C-E081-2E3C-9020907D5CC456F8/index.cfm</a>	
Wageningen University.	Agricultural and Bioresource Engineering.	<a href="http://www.mab.wur.nl/UK/">http://www.mab.wur.nl/UK/</a>	
Wageningen University.	Biotechnology	<a href="http://www.mbt.wur.nl/UK/Specialisations/">http://www.mbt.wur.nl/UK/Specialisations/</a>	
<b>POLAND</b>			
University of Science and Technology – AGH, Krakow.	Environmental Engineering with specialisation in Renewable Energy Sources.	<a href="http://www.syllabus.agh.edu.pl/GL/IS-OZE-MJ/index_en.html">www.syllabus.agh.edu.pl/GL/IS-OZE-MJ/index_en.html</a>	
<b>SPAIN</b>			
University of Cordoba, Spain.	Materials for Energy Storage and Conversion.	<a href="http://www.uco.es/version/eng/programmes/masters.html">www.uco.es/version/eng/programmes/masters.html</a>	
<b>SWEDEN</b>			

Chalmers University of Technology, Department of Energy and Environment.	Innovative and Sustainable Chemical Engineering, 2007. Options to focus on the pulp and paper industry and integrated biorefinery or sustainable development and energy systems.	<a href="http://www.chalmers.se/en/sections/education/masterprogrammes/programme-descriptions/innovative-sustainable">http://www.chalmers.se/en/sections/education/masterprogrammes/programme-descriptions/innovative-sustainable</a>
Kungliga Tekniska högskolan, KTH	Sustainable Energy Engineering.	<a href="http://www.energy.kth.se/index.asp?pnr=15&amp;ID=222&amp;lang=0">http://www.energy.kth.se/index.asp?pnr=15&amp;ID=222&amp;lang=0</a>
Lund University, International Institute for Industrial Environmental Economics.	Environmental Management and Policy, 1995. Classes on climate change, renewable energy and bioenergy as well as the opportunity to study bioenergy systems for the thesis topic.	<a href="http://www.iiiee.lu.se/site.nsf/AllDocuments/DCC4F2178D4F7D5AC1256FE0003F139C">http://www.iiiee.lu.se/site.nsf/AllDocuments/DCC4F2178D4F7D5AC1256FE0003F139C</a>
Lund University Centre for Sustainability Studies.	Environmental Studies and Sustainability Science, 1997. Courses on energy, including renewable energy and bioenergy as well as the opportunity to take bioenergy as a thesis topic.	<a href="http://www.lumes.lu.se/">http://www.lumes.lu.se/</a>
Mälardalen University.	Sustainable Energy Systems, 2003. Education on all types of renewable energy including bioenergy.	<a href="http://www.mdh.se/polopoly_fs/1.6206list_pabygg_zwg20_mag_ses_eng_0809.pdf">http://www.mdh.se/polopoly_fs/1.6206list_pabygg_zwg20_mag_ses_eng_0809.pdf</a>
Luleå University, Applied Physics and Mechanical Engineering, Division of Energy Engineering.	Sustainable Energy Engineering, 2004. Option of a bioenergy specialisation.	<a href="http://www.ltu.se/edu/program/TMMEA?l=en&amp;timePrev=false">http://www.ltu.se/edu/program/TMMEA?l=en&amp;timePrev=false</a>
Royal Institute of Technology.	Sustainable Energy Engineering, 1997. Option of sustainable power generation specialisation.	<a href="http://www.energy.kth.se/index.asp?pnr=15&amp;ID=222&amp;lang=0">http://www.energy.kth.se/index.asp?pnr=15&amp;ID=222&amp;lang=0</a>
University College of Borås.	Resource Recovery and Industrial Biotechnology, 2004. Classes in sustainable development, resource recovery and biotechnology.	<a href="http://edu.hb.se/utbildning/utbprogeng.asp?ptkod=KMAKB08h">http://edu.hb.se/utbildning/utbprogeng.asp?ptkod=KMAKB08h</a>
University of Uppsala.	Chemistry for Renewable Energy, 2005. Focus on chemical principles, materials and methods for developing renewable energy.	<a href="http://www.fotomol.uu.se/Utbildning/documents/Kemi-Master-www.pdf">http://www.fotomol.uu.se/Utbildning/documents/Kemi-Master-www.pdf</a>
<b>UK</b>		
Aston University.	Chemical Process Technology with bioenergy option.	<a href="http://www.seas.aston.ac.uk/courses/chemical-process-technology/index.html">www.seas.aston.ac.uk/courses/chemical-process-technology/index.html</a>
Brunel University.	Sustainable Energy: Technologies & Management.	<a href="http://www.brunel.ac.uk/about/acad/sed/sedcourse/pg/mechanical/sustenergy">www.brunel.ac.uk/about/acad/sed/sedcourse/pg/mechanical/sustenergy</a>
Cardiff University.	Sustainable Energy and Environment.	<a href="http://www.cardiff.ac.uk/engin/degreeprogrammes/postgraduate/sustainableenergyenvironment/index.html">www.cardiff.ac.uk/engin/degreeprogrammes/postgraduate/sustainableenergyenvironment/index.html</a>
Cranfield University	Energy Systems and Thermal Processes (Option of	<a href="http://www.cranfield.ac.uk/students/courses/page1320.jsp">http://www.cranfield.ac.uk/students/courses/page1320.jsp</a>


		Process Systems Engineering MSc)	
	De Montfort University.	Climate change and sustainable development.	<a href="http://www.iesd.dmu.ac.uk/msc/ccsd_details.htm">www.iesd.dmu.ac.uk/msc/ccsd_details.htm</a>
	University of Dundee.	Renewable Energy.	<a href="http://www.dundee.ac.uk/undergraduate/courses/renewable_energy.htm">http://www.dundee.ac.uk/undergraduate/courses/renewable_energy.htm</a>
	University of Edinburgh.	Sustainable Energy Systems.	<a href="http://www.see.ed.ac.uk/research/IES/msc/">http://www.see.ed.ac.uk/research/IES/msc/</a>
	University of Essex.	Biotechnology: Future Crops for Food and Biofuels	<a href="http://www.essex.ac.uk/bs/plant/MScBiotechFoodandBiofuels.html">http://www.essex.ac.uk/bs/plant/MScBiotechFoodandBiofuels.html</a>
	University of Glamorgan.	Renewable Energy and Resource Management.	<a href="http://www.glam.ac.uk/coursedetails/685/436">www.glam.ac.uk/coursedetails/685/436</a>
	Glasgow Caledonian.	Energy & Environmental Management.	<a href="http://hp1.gcal.ac.uk/pls/portal30/my_gcal.Progcat_Pkg.ProgPage?gtype=&amp;p_Course=MSEM">http://hp1.gcal.ac.uk/pls/portal30/my_gcal.Progcat_Pkg.ProgPage?gtype=&amp;p_Course=MSEM</a>
	Lancaster University.	Low Carbon Energy.	<a href="http://www.engineering.lancs.ac.uk/postgraduate/courses.asp?ID=44">http://www.engineering.lancs.ac.uk/postgraduate/courses.asp?ID=44</a>
	London South Bank University.	Sustainable Energy Systems.	<a href="http://prospectus.lsbu.ac.uk/courses/course.php?UCASCCode=unknown&amp;CourseID=4647">http://prospectus.lsbu.ac.uk/courses/course.php?UCASCCode=unknown&amp;CourseID=4647</a>
	Loughborough University.	Renewable Energy Systems Technology.	<a href="http://www.lboro.ac.uk/prospectus/pg/courses/dept/el/rest/index.htm">http://www.lboro.ac.uk/prospectus/pg/courses/dept/el/rest/index.htm</a>
	Newcastle University.	Sustainable Chemical Engineering.	<a href="http://www.ncl.ac.uk/ceam/postgrad/taught/sustainable.htm">http://www.ncl.ac.uk/ceam/postgrad/taught/sustainable.htm</a>
	University of Nottingham.	Energy Conversion and Management Masters.	<a href="http://pgstudy.nottingham.ac.uk/postgraduate-courses/energy-conversion-and-management-masters-msc_202.aspx">http://pgstudy.nottingham.ac.uk/postgraduate-courses/energy-conversion-and-management-masters-msc_202.aspx</a>
	University of Reading.	Renewable Energy: Technology & Sustainability.	<a href="http://www.rdg.ac.uk/Study/courses/taught/mscrenewable.asp">http://www.rdg.ac.uk/Study/courses/taught/mscrenewable.asp</a>
	University of Salford.	Sustainable Development, Energy and Management.	<a href="http://www.salford.ac.uk/course-finder/course/1382">http://www.salford.ac.uk/course-finder/course/1382</a>
	University of Sheffield.	Environmental and Energy Engineering.	<a href="http://www.shef.ac.uk/postgraduate/taught/courses/engineering/chempro/index.html">http://www.shef.ac.uk/postgraduate/taught/courses/engineering/chempro/index.html</a>
	University of Surrey	Renewable Energy Systems Engineering Module overview	<a href="http://www.surrey.ac.uk/postgraduate/taught/coursedetails.php?url=renewableenergy/modules">http://www.surrey.ac.uk/postgraduate/taught/coursedetails.php?url=renewableenergy/modules</a>
	University of Ulster.	Renewable Energy and Energy Management.	<a href="http://prospectus.ulster.ac.uk/course/?id=6738">http://prospectus.ulster.ac.uk/course/?id=6738</a>
	Queen Mary, University of London.	Sustainable Energy Systems.	<a href="http://www.eng.qmul.ac.uk/postgraduate/sustainableenergysystems.php">http://www.eng.qmul.ac.uk/postgraduate/sustainableenergysystems.php</a>
	<b>EUROPE</b> 		
	Åbo Akademi (Coordinator), Chalmers University of Technology, Norwegian University of Science and Technology and Technical University Denmark.	The Nordic Graduate School of Biofuel Science and Technology (biofuelsGS), 2006. Offers six month exchange position for any MSc student from the partner universities, or the Baltic states, to become involved in biofuelsGS ongoing research activities.	<a href="http://web.abo.fi/instut/biofuelsGS-2/New%20web/">http://web.abo.fi/instut/biofuelsGS-2/New%20web/</a>


EUREC with Oldenburg University, Zaragoza University, Loughborough University and Ecole des Mines de Paris	European Master in Renewable energy, Biomass specialisation available, 2005.	<a href="http://www.eurec.be/REMaster/introduction/introduction.htm">http://www.eurec.be/REMaster/introduction/introduction.htm</a>
University of Florence (EU coordinator), Aston University, Universidade Nove de Lisboa, Baylor University (US coordinator), Arizona State University and Embry-Riddle Aeronautical University.	IMES - International Master in Environmental Science - concentrations in biofuels and air quality, 2004.	<a href="http://www.gitasu.com/imes/index.htm">http://www.gitasu.com/imes/index.htm</a>
Central European University, Lund University, University of the Aegean and University of Manchester.	Environmental Sciences, Policy and Management, 2004. Provides opportunities to study bioenergy and renewable energy.	<a href="http://www.mespom.org/">http://www.mespom.org/</a>
Starr Network, Ghent University (Coordinator) University of York and Ecole Nationale Supérieure de Toulouse.	European MSc on Renewable Resources, 2004.	<a href="http://www.synbioc.ugent.be/">http://www.synbioc.ugent.be/</a>
Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, in cooperation with Royal Institute of Technology, Sweden, University of Rijeka, Croatia; University of Split, Croatia and University of Padova, Italy.	International MSc in Sustainable Energy Engineering (MScSEE) with two parallel study majors: Sustainable Energy Utilisation in the Built Environment and Sustainable Power Generation, 2004.	<a href="http://www.fsb.hr/see/">http://www.fsb.hr/see/</a>
Vienna University of Technology in cooperation with Energiepark Bruck/Leitha. Contributions will be made by the University of West Hungary in Mosonmagyaróvár and by Energy Center Bratislava.	Renewable Energy in Central & Eastern Europe	<a href="http://www.tuwien.ac.at/tu_vienna/">http://www.tuwien.ac.at/tu_vienna/</a>

<b>USEFUL WEBSITES</b>		
Mastersportal.eu	<a href="http://www.mastersportal.eu/students/search-results/?params=S7QytqoutrK0UipKTc_Mz4vPTFGyZrQysi62MjS0UspJzEsvTUxPhQobAIUtrJSyUyvL84tSipWswTqdMvNT81KL0iuVrGsBzf3662490&amp;start=0">http://www.mastersportal.eu/students/search-results/?params=S7QytqoutrK0UipKTc_Mz4vPTFGyZrQysi62MjS0UspJzEsvTUxPhQobAIUtrJSyUyvL84tSipWswTqdMvNT81KL0iuVrGsBzf3662490&amp;start=0</a>	
MasterGuide.org	<a href="http://www.masterguide.org/">http://www.masterguide.org/</a>	
Find a masters.com	<a href="http://www.findamasters.com/search/showcourse.asp?cour_id=6948">http://www.findamasters.com/search/showcourse.asp?cour_id=6948</a>	

# PhD providers




## PhD research in bioenergy by country 2009

INSTITUTION(s)	COURSE TITLE	WEBSITE
<b>AUSTRIA</b> 		
Karl Franzens University of Graz, Styria. Institute of Chemistry Renewable Resources.	Technical development, assessment, experimentation and modelling of biodiesel from alternative feedstocks.	<a href="http://www.uni-graz.at/nawaro/">http://www.uni-graz.at/nawaro/</a>
University of Natural Resources and Applied Life Sciences, Vienna.	Agricultural Sciences and Social and Economics Sciences.	<a href="http://www.boku.ac.at/fileadmin/_/H11/studienplaene/studienplan_786_eng.rtf">http://www.boku.ac.at/fileadmin/_/H11/studienplaene/studienplan_786_eng.rtf</a> <a href="http://www.boku.ac.at/709.html?&amp;L=1">http://www.boku.ac.at/709.html?&amp;L=1</a>
Technical University of Graz, Styria. Institute of Thermal Engineering Decentralized Energy Systems and Biomass.	The area “Decentralised Energy Systems and Biomass” deals with the development and testing of innovative technologies for decentralised power and heat generation. Technologies for CHP with gasification technologies, Stirling engines and fuel cells are mainly processed experimentally. A core theme hereby is the generation of so-called Second Generation Fuels out of biomass with an innovative gasification technology – the Heatpipe Reformer – and technologies for hot gas processing.	<a href="http://portal.tugraz.at/portal/page?_pageid=75,3479623&amp;_dad=portal&amp;_schema=PORTAL">http://portal.tugraz.at/portal/page?_pageid=75,3479623&amp;_dad=portal&amp;_schema=PORTAL</a>
Technical University of Graz, Styria. Department of Chemistry, Institute for Resource Efficient and Sustainable Systems.	Applied R&D on all aspects of thermal biomass utilisation, process evaluation and modelling of green biomass, biorefineries, zero emissions research.	<a href="http://www.ipe.tugraz.at">http://www.ipe.tugraz.at</a>
Vienna University of Technology. Institute of Chemical Engineering, Division of Chemical Process Engineering and Fluidized Bed Technology.	Experimental and modelling work on: fluid dynamics, heat and mass transfer, and chemical reactions for reactor design, process design and optimisation in: energy technology (combustion, gasification, pyrolysis); refinery technology (catalytic cracking) and environmental technology (NO <sub>x</sub> , SO <sub>2</sub> , other emissions).	<a href="http://www.vt.tuwien.ac.at/">http://www.vt.tuwien.ac.at/</a>
Vienna University of Technology Thermal Process Engineering and Process Simulation.	Membrane separation processes and their applications in water and waste water treatment; gas separations and flue gas cleaning (upgrading of	<a href="http://www.vt.tuwien.ac.at/">http://www.vt.tuwien.ac.at/</a>

	natural gas, biogas and gas from biomass gasification with an emphasis on CO <sub>2</sub> and H <sub>2</sub> S separation; waste gas cleaning using biofilters).	
<b>FINLAND</b>		
Åbo Akademi University. Chemical Engineering, Combustion and Materials Chemistry.	Mathematical modelling and experimental work on fluidized Bed Combustors and Gasifiers; Black Liquor Conversion Systems; Biofuels and Biofuel Mixtures; Ash and Emission Control and Submodel Development for Combustion Applications.	<a href="http://www.abo.fi/public/en/Content/Document/document/14053">http://www.abo.fi/public/en/Content/Document/document/14053</a>
Helsinki University of Technology, Center for Energy Technology.	Modelling and experimental work on thermal energy conversion including fluidised bed combustion, gasification technology, thermal processes for waste treatment, CO <sub>2</sub> sequestration, biofuels and process studies of large scale CHP and thermal energy plants.	<a href="http://energia.tkk.fi/en/">http://energia.tkk.fi/en/</a>
Lappeenranta University of Technology, Faculty of Technology.	Fuel production, refining and transportation chains, availability and supply logistics of biofuels, domestic and international biofuel trade and bioenergy business models.	<a href="http://www.lut.fi/en/technology/research/pages/default.aspx">http://www.lut.fi/en/technology/research/pages/default.aspx</a>
University of Joensuu, Faculty of Forest Sciences.	Bioenergy system studies, modelling and technology in the forest industry.	<a href="http://www.forest.joensuu.fi/english/index.php">http://www.forest.joensuu.fi/english/index.php</a>
University of Jyväskylä, Faculty of Mathematics and Science, Department of Chemistry.	Bioenergy from wood fuels. Modelling and experimental work on fluidised bed combustion, pyrolysis; Production of chemicals from biomass including chemical and thermo-chemical conversion of cellulose-containing raw materials.	<a href="http://www.jyu.fi/tdk/matluonnon/indexen.html">http://www.jyu.fi/tdk/matluonnon/indexen.html</a>
University of Oulu. Department of Chemistry, Inorganic and Analytical Chemistry.	Technical and experimental studies of biomass, biofuel and wood ash in energy production.	<a href="http://www.oulu.fi/chemistry/english/research.html">http://www.oulu.fi/chemistry/english/research.html</a>
The Graduate School in Chemical Engineering (GSCE): Åbo Akademi University (Program Coordinator), Helsinki University of Technology, Lappeenranta University of Technology and University of Oulu (OU).	A Postgraduate Program operated jointly by the four universities offers one week intensive courses for PhD students in English. Courses in bioenergy, combustion technologies, and biofuels. All PhD students enrolled at the partner universities can participate in intensive short courses and an annual seminar in various aspects of Chemical Engineering offered by the four universities and selected partners including biofuels GS. The GSCE program	<a href="http://www.abo.fi/gsce/">http://www.abo.fi/gsce/</a>

		covers all costs including travel. Students from other universities may participate subject to GSCE Board approval.	
	The Graduate School for Energy Science and Technology (EST), Helsinki University of Technology, Tampere University of Technology, Lappeenranta University of Technology, University of Jyväskylä, University of Oulu, Åbo Akademi and University of Vaasa.	A postgraduate programme that offers specialised PhD courses in bioenergy, some are provided in English. The Graduate School for Energy Science and Technology offers a forum to elevate the esteem of energy education and science and a forum to intensify the postgraduate education in energy engineering. It provides the students with: Possibilities to finance postgraduate studies and to shorten the time period required to complete the PhD degree. High standard postgraduate courses and seminars. The EST graduate school members are entitled to participate in all courses organised by the EST. In addition, other laboratories and research institutes offer courses and seminars to the EST students. The subjects of the courses and seminars aim to provide a versatile outlook to the energy sector and its international trends.	<a href="http://energia.tkk.fi/en/est_home/">http://energia.tkk.fi/en/est_home/</a>
<b>FRANCE</b>			
	École des Mines de Douai, École des Mines d'Albi-Carmaux. EM Albi.	Energy production from waste and biomass fuels and improvement of energy conversion processes.	<a href="http://www.gemtech.fr/12743910/1/fiche_pagelibre/">http://www.gemtech.fr/12743910/1/fiche_pagelibre/</a>
	ADEME Angers - French Agency for Environment and Energy Management. Agriculture and Bioenergy Department.	Biomass, energy crops, gasification, combustion pyrolysis, carbonisation anaerobic digestion	<a href="http://www.ademe.fr/">www.ademe.fr/</a>
<b>GERMANY</b>			
	BTU (Brandenburgische Technische Universität) Cottbus. Faculty of Environmental Sciences and Process Engineering.	Environmental and Resource Management: <ul style="list-style-type: none"> <li>• Environmental Sciences</li> <li>• Environmental Technologies</li> <li>• Environmental Management</li> </ul>	<a href="http://www.tu-cottbus.de/environment">http://www.tu-cottbus.de/environment</a>
	Saarland University of Applied Science. Institute for Future Energy Systems.	Socio-economic and techno-economic assessment of biomass potentials in forestry, agriculture and waste. Analysis of biogenic fractions of municipal solid wastes in the context of resource and climate	<a href="http://www.erneuerbareenergien.saarland.de/">http://www.erneuerbareenergien.saarland.de/</a>

		protection, as well as material flow management of biomass/waste streams.	
	Stuttgart University. Department of Mechanical Engineering, Institute of Energy Economics and the Rational Use of Energy.	Techno-economic and environmental analysis and modelling of bioenergy use and management, biomass potentials and life cycle assessment.	<a href="http://www.ier.uni-stuttgart.de/">http://www.ier.uni-stuttgart.de/</a>
	Stuttgart University. Institute for Energy Economics and Rational Use of Energy.	Energy Economics and Systems Analysis (ESA) Modelling of the domestic energy system based on biomass energy in rural areas in southern Africa – BioModels.	<a href="http://www.ier.uni-stuttgart.de/forschung/resemph_projectlist.php?num=FSP1">http://www.ier.uni-stuttgart.de/forschung/resemph_projectlist.php?num=FSP1</a>
	Technische Universität Berlin. Postgraduate International Process Engineering School (PIPES).	Process, Energy; Environmental, Control Engineering; Process and Plant Technology.	<a href="http://www.pipes-berlin.org/">http://www.pipes-berlin.org/</a>
	Technische Universität Clausthal, Institute of Energy Process Engineering and Fuel Technology.	Characterisation of fuels, fuel analysis, slagging, biomass, ignitability, reactivity and sintering temperature.	<a href="http://www.tu-clausthal.de/">http://www.tu-clausthal.de/</a>
	TU Bergakademie Freiberg, Interdisziplinäres Ecological Center.	Environmental and Material Science, Technology and Management.	<a href="http://www.phd.tu-freiberg.de/">http://www.phd.tu-freiberg.de/</a>
	<b>NETHERLANDS</b>		
	Eindhoven University of Technology. Department of Mechanical Engineering, Division Thermo Fluids Engineering, Energy Technology.	Fouling of heat exchangers in waste incinerators, biomass gasifiers and industrial heat systems; Low tar production by pyrolysis gas recycling; Modelling of the most appropriate energy technology mix.	<a href="http://www.wtb.tue.nl/woc/wet/">http://www.wtb.tue.nl/woc/wet/</a>
	Eindhoven University of Technology, Department of Mechanical Engineering, Combustion technology.	NO <sub>x</sub> formation in biomass combustion.	<a href="http://www.wtb.tue.nl/woc/wet/">http://www.wtb.tue.nl/woc/wet/</a>
	Eindhoven University of Technology, Department of Chemical Engineering and Chemistry, Environmental Technology Group.	Experimental, modelling and techno-economic analysis on gasification, catalysis, exergy and life cycle analysis of energy from biomass, and biofuels.	<a href="http://www.wtb.tue.nl/woc/wet/">http://www.wtb.tue.nl/woc/wet/</a>
	Eindhoven University of Technology, Process Technology Department of Mechanical Engineering	Oxy-Fuel Combustion of Torrified Biomass	<a href="http://w3.tue.nl/en/services/dpo/excellent_jobs_for_excellent_people/vacancies/phd_vacancies/">http://w3.tue.nl/en/services/dpo/excellent_jobs_for_excellent_people/vacancies/phd_vacancies/</a>
	University of Groningen, Energy Delta Research Centre.	Modelling and socio-economic analysis of energy systems, including bioenergy, biomass pyrolysis.	<a href="http://www.rug.nl/edrec/index">http://www.rug.nl/edrec/index</a>
	University of Twente (UT), Department of Chemical Engineering and Thermo-chemical Conversion of Biomass.	Experimental and modelling work on: flash pyrolysis; hydrothermal upgrading; super critical water gasification (SCWG) and clean hydrogen production	<a href="http://tccb.tnw.utwente.nl/">http://tccb.tnw.utwente.nl/</a>


		from bio-oil utilising processes.	
	University of Twente (UT), Department of Mechanical Engineering, Laboratory of Thermal Engineering .	Experimental and modelling work on production of syngas, producer gas and bio-oil.	<a href="http://www.thw.ctw.utwente.nl">http://www.thw.ctw.utwente.nl</a>
	University of Twente (UT), Catalytic Processes and Materials.	Catalysis for sustainable processes for fuels and chemicals. Development of new catalytic materials for the conversion of bio-related materials, like organic waste crops like rape seed oil and pyrolysis oil.	<a href="http://cpm.tnw.utwente.nl/">http://cpm.tnw.utwente.nl/</a>
	University of Twente (UT), Center for Clean Technology and Environmental Policy	Socio-economic and environmental analysis of energy policy in the broader field of governance and sustainability studies.	<a href="http://www.utwente.nl/cstm/">http://www.utwente.nl/cstm/</a>
	Utrecht University, Department of Chemistry, Centre for Energy Research	Long term bioenergy research, techno-economic analysis of bioenergy potential, biomass and land use.	<a href="http://www.uce-uu.nl/">http://www.uce-uu.nl/</a>
	Technical University of Delft (TUD), Department of Mechanical, Maritime and Materials Engineering, Section Energy Technology.	Thermochemical Biomass Conversion. Biomass gasification and combustion and chemicals production.	<a href="http://www.3me.tudelft.nl/live/pagina.jsp?id=b0e6c2f1-88ad-4691-856a-0cb5507e6b9f&amp;lang=en">http://www.3me.tudelft.nl/live/pagina.jsp?id=b0e6c2f1-88ad-4691-856a-0cb5507e6b9f&amp;lang=en</a>
	Technical University of Delft (TUD), Kluyver Centre for Genomics of Industrial Fermentation.	Biochemical conversion.	<a href="http://www.kluyvercentre.nl/">http://www.kluyvercentre.nl/</a>
	Wageningen University, Bioprocess Engineering.	Development biotechnological processes for production of aquatic biomass and biochemical conversion of biomass.	<a href="http://www.bpe.wur.nl/UK/">http://www.bpe.wur.nl/UK/</a>
	Wageningen University, Valorisation of Plant Production Chains Group.	Development of economically and environmentally sound (bio)chemical, enzymatic and biological conversion and fermentation processes.	<a href="http://www.vpp.wur.nl/UK/">http://www.vpp.wur.nl/UK/</a>
	<b>POLAND</b>		
	Poznan University of Technology, Poland, Faculty of Chemical Technology.	Experimental and modelling work on gasification, combustion, biomass, land use, potentials.	<a href="http://www.fct.put.poznan.pl/">http://www.fct.put.poznan.pl/</a>
	<b>PORTUGAL</b>		
	University of Coimbra	Sustainable Energy Systems.	<a href="http://www.uc.pt/en/efs/about/phd">http://www.uc.pt/en/efs/about/phd</a>
	<b>SWEDEN</b>		

Chalmers University of Technology Energy Technology at the Department of Energy and Environment.	Research into three main areas: Energy conversion; Sustainable energy systems; Energy systems technology. Research on biofuel combustion; Research on systems technology with special focus on the Swedish, Nordic and European energy system and the changes needed to increase sustainability of the energy system; Research on carbon capture technology.	<a href="http://www.chalmers.se/en/sections/research">http://www.chalmers.se/en/sections/research</a>
Göteborg University, Department of Chemistry.	Experimental and modelling work on fluidized bed system design, gasification, pyrolysis and combustion.	<a href="http://www.che.gu.se/">http://www.che.gu.se/</a>
Karlstad University, Environmental and Energy Systems.	System studies, experimental and modelling work on bioenergy in the forest industry, including fluidized beds and wood fuels.	<a href="http://www.kau.se/eng/">http://www.kau.se/eng/</a>
Linköping University, Division of Energy Systems, Department of Mechanical Engineering,	Techno-economic and environmental analysis, optimisation and modelling of bioenergy systems, CHP and energy in industrial applications.	<a href="http://www.ikp.liu.se/energi/index.asp">http://www.ikp.liu.se/energi/index.asp</a>
Luleå University of Technology, Applied Physics and Mechanical Engineering, Division of Energy Engineering.	Experimental and modelling work on combustion and gasification systems; optimisation of energy systems; techno-economic and environmental analysis, CDM, carbon sinks and GHG emissions.	<a href="http://www.ltu.se/forskning/d24604?l=en">http://www.ltu.se/forskning/d24604?l=en</a>
Lund University, International Institute for Industrial Environmental Economics.	Energy for sustainable development, renewable energy and bioenergy systems.	<a href="http://www.iiiee.lu.se/">http://www.iiiee.lu.se/</a>
Lund University, Environmental and Energy Systems Studies.	Biomass in sustainable energy systems, district-heating systems and local energy strategies, and local politics of renewable energy.	<a href="http://www.miljo.lth.se/engelska/eng_index.asp">http://www.miljo.lth.se/engelska/eng_index.asp</a>
Lund University, Department of Chemical Engineering.	Experimental and modelling work on: biomass pretreatment and combustion, carbon sequestration in forests, anaerobic digestion, ash handling, extraction of lignin from black liquor.	<a href="http://www.lth.se/english/">http://www.lth.se/english/</a>
Lund University, Lund University Centre for Sustainability Studies.	A new research programme on sustainability science provides opportunities for research into bioenergy and renewable energy.	<a href="http://www.lumes.lu.se/">http://www.lumes.lu.se/</a>
Royal Institute of Technology, Department of Chemical Engineering and Technology Division of Chemical Reaction Engineering.	Mathematical modelling and experimentation on combustion, fuel cell power plants.	<a href="http://www.ket.kth.se/avd/krt/index.htm">http://www.ket.kth.se/avd/krt/index.htm</a>

Royal Institute of Technology, Department of Chemical Engineering and Technology Division of Chemical Technology.	Experimental and modelling work on gasification, pyrolysis and combustion of biomass, fuel catalysis and catalytic processes and membranes.	<a href="http://www.ket.kth.se/avd/kt/index.htm">http://www.ket.kth.se/avd/kt/index.htm</a>
Royal Institute of Technology, Department of Chemical Engineering and Technology Division of Energy Processes.	Computer-based thermodynamic analysis of processes for bioenergy conversion.	<a href="http://www.ket.kth.se/avd/ep/index_e.htm">http://www.ket.kth.se/avd/ep/index_e.htm</a>
Swedish University of Agricultural Sciences, Umeå. Unit of Biomass Technology and Chemistry.	Analysis and processing of energy crops, agro and woody biomass for energy production.	<a href="http://www.btk.slu.se">http://www.btk.slu.se</a>
Swedish University of Agricultural Sciences, Uppsala. Department of Bioenergy.	Techno-economic and environmental and socio- economic analysis of biofuel chain of production, bioenergy system studies, bioenergy potentials and land use.	<a href="http://www.slu.se/?ID=580">http://www.slu.se/?ID=580</a>
Umeå University, Department of Applied Physics and Electronics.	Modelling and system analysis of thermal energy conversion, biomass combustion and energy efficiency.	<a href="http://www.tfe.umu.se/info_eng/forskning/index.html">http://www.tfe.umu.se/info_eng/forskning/index.html</a>
Växjö University, Division of Bioenergy Technology.	Experimental and modelling work on: combustion, gasification and bioenergy system technologies.	<a href="http://www.vxu.se/english/research/postgraduate_research/index.html">http://www.vxu.se/english/research/postgraduate_research/index.html</a>
<b>UNITED KINGDOM</b>		
University of Aberdeen Graduate School, College of Physical Sciences, Institute of Energy Technology.	Techno economic evaluation of bioenergy crops.	<a href="http://www.abdn.ac.uk/energy/">http://www.abdn.ac.uk/energy/</a>
Aberystwyth University, Institute of Biological, Environmental and Rural Sciences (IBERS).	Epigenetics in the bioenergy crop Miscanthus (IBERS Studentship ref 22) Effect of host genotype and agronomic practices on N and P uptake via mycorrhizal fungi in Miscanthus and Maize (IBERS Ref 23) Computational Modelling of the Relationships between Miscanthus Genotype, Environment and Phenotype (IBERS Ref 5).	<a href="http://www.aber.ac.uk/en/ibers/research/postgraduate-research/">http://www.aber.ac.uk/en/ibers/research/postgraduate-research/</a>
Aston University, Chemical Engineering and Applied Chemistry, Bioenergy Research Group.	Experimental and modelling work on the thermal processing by fast pyrolysis and gasification with complementary work on biomass pretreatment, system design, and technical and economic evaluation.	<a href="http://www.aston-berg.co.uk">www.aston-berg.co.uk</a>
Aston University, Chemical Engineering and Applied Chemistry,	<ul style="list-style-type: none"> <li>Research at EBRI considers thermochemical conversion of biomass feedstock, optimization of</li> </ul>	<a href="http://www.ebri.org.uk/">http://www.ebri.org.uk/</a>

European Bioenergy Research Institute	<p>reaction parameters by the study of formal kinetic parameters, hot gas filtration research in the lab scale, analysis with TG and TG-MS.</p> <ul style="list-style-type: none"> <li>• Special feedstocks like algae. Engine tests for Combined Heat and Power (CHP) generation. Hydrogen production from synthesis gas</li> <li>• Biochar (from biomass pyrolysis ) to sequester Carbon.</li> </ul>	
University of Cambridge, Department of Chemical Engineering.	Experimental, modelling and system studies of gasification and combustion of waste/biomass, fluidised beds technology.	<a href="http://www.cheng.cam.ac.uk/graduate/phd/projs.html">http://www.cheng.cam.ac.uk/graduate/phd/projs.html</a>
Cardiff University, Wales Biomass Centre, Llysindam Field Centre, School of Biosciences at Cardiff University.	Experimental and modelling work on production and harvesting of biomass crops.	<a href="http://www.walesbiomass.org">http://www.walesbiomass.org</a>
Cardiff University, Institute for Sustainability, Energy and Environmental Management.	Biomass combustion and gasification.	<a href="http://www.cardiff.ac.uk/research/spotlight/sustainability/index.html">http://www.cardiff.ac.uk/research/spotlight/sustainability/index.html</a>
CEH (Edinburgh Site), Centre for Ecology and Hydrology.	Impact of Bioenergy Crops on Methyl Halide and VOC fluxes.	<a href="http://www.ceh.ac.uk/">http://www.ceh.ac.uk/</a>
University of Cambridge.	<ul style="list-style-type: none"> <li>• Molecular biology of chloroplasts in plants, algae and Plasmodium; photosynthesis and algal bioenergy.</li> <li>• Bioenergy, proteomics and cell wall synthesis in plants.</li> </ul>	<a href="http://www.bio.cam.ac.uk/dept/biochem/">http://www.bio.cam.ac.uk/dept/biochem/</a>
Cranfield University, Process and Systems Engineering Group.	Experimental, modelling and techno-economic analysis of biomass & waste-fuelled CHP and thermo-chemical combustion of biomass	<a href="http://www.cranfield.ac.uk/sas/researchthemes/page9408.jsp">http://www.cranfield.ac.uk/sas/researchthemes/page9408.jsp</a>
De Montfort University, The Institute of Energy and Sustainable Development (IESD).	Socio-economic analysis of the social-psychological aspects of decentralised and renewable energy technologies, climate and energy policy development, sustainable benefit assessment and environmental decision making.	<a href="http://www.iesd.dmu.ac.uk/">http://www.iesd.dmu.ac.uk/</a>
University of Dundee, College of Life Sciences.	<ul style="list-style-type: none"> <li>• Identification of novel genes underlying biofuel production capacity in grasses and Arabidopsis</li> <li>• Bacterial biohydrogen: bioengineering, production and storage</li> <li>• The genetics underpinning biofilm formation</li> </ul>	<a href="http://www.lifesci.dundee.ac.uk/">http://www.lifesci.dundee.ac.uk/</a>

University of East Anglia, Tyndall Centre for Climate Change.	Socio and techno-economic analysis of all aspects of renewable energy, bioenergy specialisations.	<a href="http://www.tyndall.ac.uk/research/researchers/phd/phd.shtml">http://www.tyndall.ac.uk/research/researchers/phd/phd.shtml</a>
IGER Institute of Grassland and Environmental Research.	Sponsor PhDs, usually in association with a partner university. Energy crops production, development, harvesting, greenhouse gas balances and land use change.	<a href="http://www.iger.bbsrc.ac.uk/default.asp">http://www.iger.bbsrc.ac.uk/default.asp</a>
University of Leeds, School of Process, Environmental and Materials Engineering	Energy and Environment	<a href="http://www.engineering.leeds.ac.uk/pg/pgt/MSC-EGY&amp;EV.shtml">http://www.engineering.leeds.ac.uk/pg/pgt/MSC-EGY&amp;EV.shtml</a>
University of Leeds, School of Earth and Environment.	Trade-offs between biofuel production and food security: climate change adaptation and mitigation in the agricultural sector.	<a href="http://www.see.leeds.ac.uk/study/phd/phd-2008/phd-2008-challinor-tompkins.htm">http://www.see.leeds.ac.uk/study/phd/phd-2008/phd-2008-challinor-tompkins.htm</a>
University of London, University College London. Department of Chemical Engineering, Centre for CO2 Technology.	Biomass gasification & combustion.	<a href="http://www.ucl.ac.uk/centre-for-co2-technology/">http://www.ucl.ac.uk/centre-for-co2-technology/</a>
University of London, Imperial College of Science, Technology and Medicine. Department of Chemical Engineering and Chemical Technology, Energy Engineering Research Group.	Experimental and modelling of thermo-chemical conversion of renewables; Carbon sequestration; Combustion and gasification.	<a href="http://www3.imperial.ac.uk/chemicalengineering/research/researchthemes/researchfocusareas/enge/">http://www3.imperial.ac.uk/chemicalengineering/research/researchthemes/researchfocusareas/enge/</a>
Newcastle University.	Biological fuel cells - to develop fuel cell systems using biocatalysts, such as enzymes and micro-organisms to produce energy from biofuels or wastewater for healthcare and environmental applications.	<a href="http://www.ncl.ac.uk/ceam/postgrad/research/PhDProjects.htm">http://www.ncl.ac.uk/ceam/postgrad/research/PhDProjects.htm</a>
University of Nottingham, School of Biosciences.	Systems Modelling of Input-Output Energy Balances of Bioenergy Production at the Farm-Level. Bioenergy from wheat straw.	<a href="http://www.nottingham.ac.uk/biosciences/">http://www.nottingham.ac.uk/biosciences/</a>
University of Surrey, School of Engineering.	A Life Cycle Approach to Estimation of Carbon Inventories, Carbon Footprints and Embodied Carbon - development of life cycle methodologies and tools, and quantification of greenhouse gas emissions, related to supply chains for Food and Biofuels.	<a href="http://209.85.229.132/custom?q=cache:lvWh7kC6Qkj:www.surrey.ac.uk/eng/research/vacancies/CES-Life-Cycle-food.doc+biofuels&amp;cd=2&amp;hl=en&amp;ct=clnk&amp;client=google-coop-np">http://209.85.229.132/custom?q=cache:lvWh7kC6Qkj:www.surrey.ac.uk/eng/research/vacancies/CES-Life-Cycle-food.doc+biofuels&amp;cd=2&amp;hl=en&amp;ct=clnk&amp;client=google-coop-np</a>
University of York, Department of Biology.	Developing Biodiversity-friendly Biofuels.	<a href="http://www.york.ac.uk/depts/biol/gsp/prospective/phd/de_sships/sdp_fera_2009.html">http://www.york.ac.uk/depts/biol/gsp/prospective/phd/de_sships/sdp_fera_2009.html</a>

University of York, Department of Biology.	Understanding microbial population dynamics in anaerobic digestion.	<a href="http://www.york.ac.uk/depts/biol/gsp/prospective/phd/de_sships/TPS_Bioenergy_JPJC.html">http://www.york.ac.uk/depts/biol/gsp/prospective/phd/de_sships/TPS_Bioenergy_JPJC.html</a>
<b>EUROPE General</b>		
Åbo Akademi University (Finland), Chalmers University of Technology (Sweden), Norwegian University of Science and Technology and Technical University of Denmark. The Nordic Graduate School of Biofuel Science and Technology (biofuelsGS-2).	The Nordic Graduate School of Biofuel Science and Technology (biofuelsGS-2) offers PhD supervision to students from partner universities in all aspects of biofuels.	<a href="http://web.abo.fi/instut/biofuelsGS-2/New%20web/">http://web.abo.fi/instut/biofuelsGS-2/New%20web/</a>
Technische Universitaet Wien (Vienna University of Technology), Austria; Rheinisch-Westfaelische Technische Hochschule Aachen, Germany; National Technical University of Athens, Greece; Wageningen Universiteit, Netherlands; A.V. Topchiev Institute of Petrochemical Synthesis – Russian Academy of Sciences, Russia; Lunds Universitet, Sweden and Orta Dogu Teknik Universitesi, Turkey.	EC Project: Hyvolution - Non-thermal production of pure hydrogen from biomass.	<a href="http://www.biohydrogen.nl/hyvolution">http://www.biohydrogen.nl/hyvolution</a>

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