

**LIST OF UNIVERSITIES (/INSTITUTES) GIVING EDUCATION ON  
NUCLEAR AND RADIOCHEMISTRY  
IN EUROPE**

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Universities are categorized in each country by the extent of education *i.e.* nuclear and/or radiochemistry (NRC) is taught as *an educational programme/specialization* OR as *separate courses* under other educational programmes. Nuclear engineering programmes are included if they contain substantially courses on nuclear/radiochemistry. Credit values for the courses are defined by the ECTS (European Credit Transfer and Accumulation System) grading system, *i.e.* 1 credit corresponds 27 hours of work.

## AUSTRIA

### *Dedicated NRC programme(s)*

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***NRC course(s) under other educational programme(s)***      ***Level***

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### **UNIVERSITY OF VIENNA**

Faculty of Chemistry, Institute of Inorganic Chemistry,  
Radiochemistry group

<http://anorg-chemie.univie.ac.at>

Contact person: Ass. Prof. Gabriele Wallner

radiochemistry,  
radiopharmaceutical  
chemistry, actinides  
chemistry = 17 credits

MSc

### **VIENNA UNIVERSITY OF TECHNOLOGY**

Faculty of Physics, The Institute of Atomic and Subatomic Physics,  
Radiation Physics (Radio and Nuclear Chemistry Groups)

<http://www.ati.ac.at/index.php?id=16&L=1>

Contact person: Prof. Max Bichler

radiochemistry,  
environmental INAA = 21  
credits

MSc

### **UNIVERSITY OF INNSBRUCK**

Faculty of Chemistry and Pharmacy, Institute of Analytical chemistry  
and Radiochemistry

<http://www.uibk.ac.at/acrc/>

Contact person: Prof. Günther K. Bonn

radiochemistry/radioanalytics  
= 2.5 credits

BSc

## BELGIUM

### *Dedicated NRC programme(s)*

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### **XIOS HOGESCHOOL LIMBURG**

Department of Industrial Sciences and Technology – Engineering

BSc (*total 180 credits*) and  
MSc in Nuclear Engineering

<http://www.xios.be/>

Contact person: Mr. Francis Vos

(Industrial Engineer, *total 60 credits*), specializations:

- environmental technology – radiochemistry
- nuclear technology - medical nuclear technology

***NRC course(s) under other educational programme(s)***      ***Level***

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## **GHENT UNIVERSITY**

Faculty of Sciences, Department of Analytical Chemistry

radiochemistry = *6 credits*      BSc

<http://www.analchem.ugent.be/index.shtml>

Contact person: Prof. Karel Strijckmans

*Additional remarks*

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**Belgian Nuclear Higher Education Network: Université de Liège, Université Catholique de Louvain, Universiteit Gent, Katholieke Universiteit Leuven, Université Libre de Bruxelles and Vrije Universiteit Brussel** in association with the Belgian nuclear research centre (SCK•CEN)

nuclear fuel cycle and applied radiochemistry under “*Advanced master in nuclear engineering*” -programme      MSc

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## **BULGARIA**

***Dedicated NRC programme(s)***

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### **SOFIA UNIVERSITY ST. KLIMENT OHRIDSKI**

Faculty of Chemistry, Department of Analytical Chemistry  
<http://www.chem.uni-sofia.bg/depart/achem/default.htm>

Contact person: Prof. Romyana Dzhingova

1) BSc in nuclear chemistry = *97 credits NRC of total 240 credits*

2) MSc in nuclear chemistry (begins 2010) = *60/60 credits*

3) MSc in radiochemistry and radioecology = *90/90 credits*

4) PhD in radiochemistry = *175/180*

*credits*

\*for other students radioanalytical chemistry and radioecology at BSc level

## CROATIA

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s)*      *Level*

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### UNIVERSITY OF ZAGREB

Faculty of Science and Mathematics, Section Chemistry  
<http://www.pmf.hr/indexen.htm>

basic radiochemistry,  
radiation chemistry

MSc

Contact person: Dr. Dusan Razem

## CYPRUS

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s)*      *Level*

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### UNIVERSITY OF CYPRUS, Nicosia

Department of Chemistry  
<http://www.ucy.ac.cy/goto/chemistry/en-US/HOME.aspx>

basic radiochemistry,  
environmental radioactivity  
= 7 credits

BSc,  
MSc

Contact person: Assoc. Prof. Ioannis Pashalidis

## CZECH REPUBLIC

### *Dedicated NRC programme(s)*

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#### **CZECH TECHNICAL UNIVERSITY IN PRAGUE (CTU)**

Faculty of Nuclear Sciences and Physical Engineering

Department of Nuclear Chemistry

[www.cvut.cz](http://www.cvut.cz); [www.fjfi.cvut.cz/kjch](http://www.fjfi.cvut.cz/kjch)

Contact person: Prof. Jan John

1) BSc in nuclear chemical engineering = 36 credits NRC of total 180 credits

2) MSc in nuclear chemical engineering, specializations:

➤ applied nuclear chemistry

➤ chemistry of the environment

➤ nuclear chemistry in biology and medicine

= 110/144 credits NRC of total 120 (2 years) or 180 credits (3 years)

3) PhD in nuclear chemistry

#### **CHARLES UNIVERSITY, Prague** in collaboration with CTU

Faculty of Science, Department of Organic and Nuclear Chemistry

<http://web.natur.cuni.cz/www/en/index.php>

Contact person: Assoc. Prof. Ladislav Lešetický

1) MSc in chemistry: specialization nuclear chemistry (radiopharmaceutical chemistry) = 100 credits of total 120 credits

2) PhD in organic chemistry, specialization NRC

\* basic radiochemistry also at BSc level

*NRC course(s) under other educational programme(s)*      *Level*

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#### **MASARYK UNIVERSITY, Brno**

Faculty of Science, Department of Chemistry

<http://www.sci.muni.cz/main.php?stranka=31&podtext=&jazyk=EN>

Contact person: Prof.RNDr. Jiří Příhoda

radiochemistry, environmental radioactivity = 11 credits

BSc, MSc, PhD

## INSTITUTE OF CHEMICAL TECHNOLOGY PRAGUE (ICTP)

<http://www.vscht.cz/homepage/english/main/university/faculties>

Faculty of Chemical Engineering, Department of Analytical Chemistry

nuclear analytical chemistry MSc  
= 6 credits

Contact person: Dr. Jan Fahrnich

Faculty of Environmental Technology, Department of Power engineering

radioactive waste management, technical nuclear chemistry

## UNIVERSITY OF DEFENCE, Brno

NBC Defence Institute

nuclear chemistry = 4 credits BSc

<http://www.vojenskaskola.cz/school/ud/nbcdi/Pages/default.aspx>

Contact person: Assistant Jiří Janda

## FINLAND

*Dedicated NRC programme(s)*

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### UNIVERSITY OF HELSINKI

Faculty of Mathematics and Natural Sciences, Department of Chemistry, Laboratory of Radiochemistry

1) MSc in chemistry: specialization radiochemistry = 81 NRC of total 120 credits

<http://www.helsinki.fi/kemia/radiokemia/english/>

2) PhD in chemistry: specialization radiochemistry = 50/60 credits

Contact person: Prof. Jukka Lehto

\* basic radiochemistry also at BSc level

*NRC course(s) under other Level educational programme(s)*

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### UNIVERSITY OF TURKU

Faculty of Mathematics and Natural Sciences, Department of Chemistry

basic radiochemistry, MSc  
chemistry of PET-  
radiopharmaceuticals,  
radiochemical measuring  
techniques = 16 credits

<http://www.sci.utu.fi/kemia/en/>

Contact person: Prof. Olof Solin

## FRANCE

### *Joint programmes related to NRC*

**Consortium I: ParisTech** (<http://www.paristech.fr/>: Ecole Polytechnique ParisTech – Mines ParisTech – Ecole des Ponts ParisTech – Arts et Métiers ParisTech – ENSTA ParisTech – Chimie ParisTech) **Université Paris Sud (XI), Ecole Centrale Paris (ECP), Supelec, l'Institut National des Sciences et Techniques Nucléaires de Saclay (INSTN)**

<http://www.master-nuclear-energy.fr/en/index.php>

1) MSc Nuclear Energy; specialization nuclear fuel cycle MSc

**Consortium II: Université Paris Sud (XI), Université Paris XII, Chimie ParisTech, Mines ParisTech, Polytechnique ParisTech, ECP, INSTN**

<http://www.enscp.fr/spip.php?rubrique148>

2) MSc Science of Materials; specialization materials for energy (*Matériaux pour les structures et l'énergie*) MSc

**Consortium III: University Montpellier 2, l'Ecole Nationale Supérieure de Chimie de Montpellier (ENSCM), INSTN**

<http://www.master-chimie.univ-montp2.fr/CSMP> ;  
<http://www-instn.cea.fr/-Chimie-separative-materiaux-et-.html?lang=fr>

3) MSc Sciences, Technology, Health – chemistry and applications; specialization separation chemistry, materials, methods (*Chimie Séparative, Matériaux, Procédés*) MSc

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## PARIS SUD UNIVERSITY XI

Radiochemistry Group [http://www.dep-chimie.u-psud.fr/index.php?option=com\\_wrapper&view=wrapper&Itemid=169](http://www.dep-chimie.u-psud.fr/index.php?option=com_wrapper&view=wrapper&Itemid=169)

Contact person: Prof. Eric Simoni

Programme 1: *profile radiochemistry* MSc

Programme 2

## CHIMIE PARISTECH (École nationale supérieure de chimie de Paris)

Nuclear Science Division <http://www.chimie-paristech.fr/spip.php?page=english>

Contact person: Prof. Gérard Cote

Programme 1: *profile engineering* MSc

Programme 2

\*radioactivity also at BSc level

## UNIVERSITY MONTPELLIER 2

Institute of Separative Chemistry of Marcoule (in collaboration with Commissariat à l'Energie Atomique CEA, Centre national de la recherche scientifique CNRS)

<http://www.master-chimie.univ-montp2.fr/CSMP>

Contact person: Prof. Nicolas Dacheux

Programme 3(*application au cycle du combustible nucléaire ,CSMP*) MSc

## l'Ecole Nationale Supérieure de Chimie de Montpellier (ENSCM)

Institute of Separative Chemistry of Marcoule

[http://www.icsm.fr/index.php?pagendx=app\\_1838&project=icsm\\_engl](http://www.icsm.fr/index.php?pagendx=app_1838&project=icsm_engl)

Contact person: Ass. Prof. Luc Girard

Programme 3(*application au cycle du combustible nucléaire ,CSMP*) MSc

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## École des Mines of Nantes

<http://www.mines-nantes.fr/fr/Formations/Masters-of-Science/SNEWM-ANWM>

Laboratory of Subatomic Physics and Associated Technologies (SUBATECH, in collaboration with University of Nantes and CNRS),  
Laboratory of radiochemistry

<http://www-subatech.in2p3.fr/~rchimie/index.html>

Contact person: Prof. Bernd Grambow

MSc in Advanced Nuclear Waste Management (*approx. 80 credits NRC of total 120 credits*) MSc

## GRENOBLE INP Phelma in collaboration with EDF and CEA - INSTN

Institut Polytechnique Grenoble  
Science et Ingénierie des Matériaux et Procédés (SIMAP)  
<http://phelma.grenoble-inp.fr/courses/international-master-manuen-materials-for-nuclear-energy-278507.kjsp?RH=1268753006722>  
Contact person : Prof. Yves Brechet

Master international  
MaNuEn - Materials for nuclear energy –qualification (*Total 11 credits*), as separate courses for PhD studies

*NRC course(s) under other educational programme(s)* Level

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## UNIVERSITY OF NICE-SOPHIA ANTIPOLIS (Université de Nice-Sophia)

Institute of Chemistry, Laboratoire de Radiochimie, Sciences Analytiques et Environnement <http://unice.fr/>

<http://portail.unice.fr/jahia/Jahia/site/myjahiasite/pid/936>

Contact person: Prof. Geneviève Barci

radioactivity (BSc),  
analytical radiochemistry  
(MSc, 1 credit)

BSc,  
MSc

## GERMANY

### *Dedicated NRC programme(s)*

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RUPRECHT-KARL UNIVERSITY OF HEIDELBERG in collaboration with Karlsruhe Institute of Technology (KIT)

Faculty of Chemistry and Geoscience, Department of Physical Chemistry

<http://www.uni-heidelberg.de/fakultaeten/chemgeo/pci/>

Contact person: Prof. Petra Panak

1) BSc in chemistry:  
specialization radiochemistry  
= 27 credits NRC of total 180  
credits

2) MSc in chemistry:  
specialization radiochemistry  
= 40/120 credits

DRESDEN UNIVERSITY OF TECHNOLOGY in collaboration with Forschungszentrum Dresden-Rossendorf

Faculty of Science, Dept. Chemistry/Food Chemistry, Professorship Radiochemistry

<http://www.chm.tu-dresden.de/anc2/>

Contact person: Prof. Gert Bernhard

1) MSc in chemistry:  
specialization (module)  
radiochemistry

\*for other students also  
radioanalytics at BSc level  
(and environmental and  
radiochemistry at MSc level)

UNIVERSITY OF KÖLN in collaboration with Forschungszentrum Jülich

Faculty of Science, Department of Chemistry, Division of Nuclear Chemistry

[http://www.uni-koeln.de/math-nat-fak/nukchem/index\\_e.htm](http://www.uni-koeln.de/math-nat-fak/nukchem/index_e.htm)

Contact person: Dr. Bernhard Kuczewski

1) BSc in chemistry:  
specialization (=module)  
nuclear chemistry = 25  
credits NRC of total 180  
credits

2) MSc in chemistry:  
specialization (=module)  
nuclear chemistry= 43  
credits NRC of total 120  
credits

\* MSc courses applicable in  
PhD studies

### **FH AACHEN-UNIVERSITY OF APPLIED SCIENCES**

Speciality Chemistry and Biotechnology, Nuclear Chemistry

[http://www.fh-aachen.de/nuclear\\_applications.html](http://www.fh-aachen.de/nuclear_applications.html)

Contact person: Prof. Ulrich W. Scherer

1) European MSc in Nuclear  
Applications = 30-90 credits  
NRC of total 120 credits

\* for other students nuclear  
chemistry and radioanalytical  
methods at BSc level

### **LEIBNIZ UNIVERSITY OF HANNOVER**

Centre for Radiation Protection and Radioecology

<http://www.zsr.uni-hannover.de/>

Contact person: Prof. Rolf Michel

1) MSc in analytical  
chemistry: including  
radioanalytics, radioecology  
and radiation safety = 22  
credits

2) MSc in mineralogy:  
module in radioanalytics and  
radiation safety = 12 credits

### **FREIE UNIVERSITÄT BERLIN**

Institute of Chemistry and Biochemistry, Inorganic chemistry,  
Radiochemistry group

<http://www.bcp.fu-berlin.de/chemie/ac/agabram/index.html>

Contact person: Prof. Ulrich Abram

1) MSc in chemistry:  
specialization (17 credits  
courses+diploma work)  
radiochemistry

\* basic radiochemistry also at  
BSc level

*NRC course(s) under other  
educational programme(s)*      *Level*

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### **KARLSRUHE INSTITUTE OF TECHNOLOGY**

Fakultät für Chemie und Biowissenschaften

Institute for Nuclear Waste Disposal (INE)

<http://www.kit.edu/kit/english/>

nuclear waste management,  
radioanalytics

Contact person: Prof. Horst Geckeis

### JOHANNES GUTENBERG UNIVERSITY, MAINZ

Department of Chemistry, Pharmacy and Geosciences, Institute of Nuclear Chemistry <http://www.kernchemie.uni-mainz.de/>

Contact person: Prof. Tobias Reich

nuclear chemistry (actinides chemistry, radiopharmaceutical chemistry at diploma level) from 2010 BSc

### MUNCHEN UNIVERSITY OF TECHNOLOGY

Chemistry Department, Institute for Radiochemistry [www.radiochemie.de](http://www.radiochemie.de)

Contact person: Prof. Winfried Petry

basic radiochemistry, special aspects of radiochemistry, radiochemistry and radiopharmacy = 3 credits BSc, MSc

### TU CLAUSTHAL

Institute of Disposal Research

<http://www.ielf.tu-clausthal.de/en/ueber-uns/>

Contact person: Prof. Klaus-Jürgen Röhlig

radioactive and hazardous waste management; isotopic geochemistry (under *MSc in Radioactive and Hazardous Waste Management*) MSc

### HOCHSCHULE ZITTAU/GÖRLIZ -University of Applied Sciences

Fakultät Mathematik/Naturwissenschaften

Contact person: Prof. Dr.-Ing. Ender, Volker

applied nuclear and radiochemistry, power plant chemistry, fuel gas treatment –module = 10 credits MSc

### GREECE

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s) Level*

### ARISTOTLE UNIVERSITY, Thessaloniki

Faculty of Sciences, Department of Chemistry, Laboratory of Inorganic Chemistry

<http://www.chem.auth.gr/index.php?lang=en>

Contact person: Dr. Panagiotis Misaelides

radiochemistry (radiochemistry and nuclear chemistry, nuclear fuel cycle) = 4.5 credits BSc, (MSc)

## UNIVERSITY OF PATRAS

School of Natural Sciences, Department of Chemistry, Radiochemistry Group principles and applications of nuclear chemistry = 5 credits BSc

<http://www.chem.upatras.gr/index.php?lang=en>

Contact person: Symeopoulos Vasilios

## NATIONAL TECHNICAL UNIVERSITY OF ATHENS

School of Chemical Engineering radiochemistry, nuclear chemistry-nuclear technology BSc (MSc)

<http://www.chemeng.ntua.gr/>

Contact person: Prof. M.Koukios

## ITALY

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s) Level*

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**UNIVERSITY OF MILAN (Università degli Studi di Milano)** in collaboration with Istituto Nazionale di Fisica Nucleare Sezione di Milano (INFN) and Italian Society of Chemistry

Laboratorio Acceleratori e Superconduttività Applicata Interdivisional Group of Radiochemistry and Radiation Chemistry basic radiochemistry, radiopharmaceutical chemistry, environmental radioactivity = 10 credits BSc, MSc

<http://www.lasa.mi.infn.it/> and <http://www.GIR.mi.infn.it/>

Contact person: Prof. Mauro Bonardi

## UNIVERSITY OF PAVIA

Faculty of Science, General Chemistry basic radiochemistry, advanced radiochemistry = 6 credits BSc

[www.unipv.eu/](http://www.unipv.eu/);

<http://scienze.unipv.it/?pagina=corsi&anno=2009&lettera=R>

Contact person: Ass. Prof. Massimo Oddone

## UNIVERSITY OF NAPOLI

Faculty of Science, Department of Chemistry  
<http://chemistry.unina.it:8080/home.html>

Contact person: Prof. Augusto De Renzi

chemistry of radioisotopes MSc

## THE NETHERLANDS

### *Dedicated NRC programme(s)*

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### DELFT UNIVERSITY OF TECHNOLOGY

Faculty of Applied Sciences, Department Radiation and Isotopes for Health

<http://www.tudelft.nl/live/pagina.jsp?id=70f9805f-de88-4790-83dc-b5b04db554a6&lang=en>

Contact person: Ass. Prof. Daniel J. DeVries

1) MSc in chemical engineering: specialization nuclear science and engineering = 30-70 credits  
*NRC of total 105 credits*

## NORWAY

### *Dedicated NRC programme(s)*

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### NORWEGIAN UNIVERSITY OF LIFE SCIENCES, ÅS

Department of Plant and Environmental Sciences, Environmental Chemistry

<http://www.umb.no/ipm-en>

<http://www.umb.no/study-options/article/european-master-of-science-in-radioecology>

Contact person: Ass. Prof. Lindis Skipperud

1) EurMSc in radioecology = 90 credits  
*NRC of total 120 credits*

2) MSc in chemistry: specialization radiochemistry = 90/120 credits

3) PhD in chemistry: specialization nuclear and radiochemistry = 20-60/60 credits

\* radiochemistry/radioecology also for other students at MSc level

### UNIVERSITY OF OSLO

Department of Chemistry, Centre for Accelerator Based Research and Energy Physics (SAFE), Nuclear Chemistry Group [www.safe.uio.no](http://www.safe.uio.no);

1) MSc in chemistry: specialization nuclear

<http://www.kjemi.uio.no/english/>

Contact person: Prof. Jon Petter Omtvedt

chemistry=80-100 credits  
NRC of total 120 credits

2) PhD in chemistry:  
specialization nuclear  
chemistry = 40/50 (plus  
thesis 130) credits

\*radioactivity and  
radiochemistry also at BSc  
level

## POLAND

### *Dedicated NRC programme(s)*

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#### MARIA CURIE SKŁODOWSKA UNIVERSITY, LUBLIN

Faculty of Chemistry, Department of Radiochemistry and Chemistry  
of Colloids <http://radiochemistry.umcs.lublin.pl/home/ZRiChK.htm>

Contact person: Academic teacher Elżbieta Grządka

1) MSc in analytical  
chemistry: specialization  
radiochemistry

\* radiochemistry and  
radioisotopic techniques also  
at BSc level

#### UNIVERSITY OF GDANSK

Faculty of Chemistry, Analytics and Environmental Radiochemistry  
Chair

<http://www.chem.univ.gda.pl/en/>

[http://www.chem.univ.gda.pl/kars/index\\_en.html](http://www.chem.univ.gda.pl/kars/index_en.html)

Contact person: Prof. Bogdan Skwarzec

1) MSc in environmental  
protection: specialization  
radiochemistry

2) MSc in chemistry:  
specialization nuclear and  
radiochemistry

3) PhD in chemistry:  
specialization nuclear and  
radiochemistry

*NRC course(s) under other  
educational programme(s)*      *Level*

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#### UNIVERSITY OF WARSAW

Faculty of Chemistry, Division of Physics and Radiochemistry,  
Laboratory of Radiochemistry

nuclear chemistry, nuclear  
energy and radioactivity,

BSc,

[http://www.chem.uw.edu.pl/index\\_en.php](http://www.chem.uw.edu.pl/index_en.php)

Contact person: Prof. Jerzy SZYDŁOWSKI

radiopharmaceutical  
synthesis and its application  
in medicine, isotope effects =  
*20 credits* MSc

### NICOLAUS COPERNICUS UNIVERSITY, Torun

Faculty of Chemistry, Department of Nuclear Chemistry

<http://www.chem.umk.pl/Faculty-of-Chemistry.html>

<http://www.chem.uni.torun.pl/RAD.html>

Contact person: Prof. Alexandre G. Chostenko

nuclear chemistry BSc,  
MSc

### INSTITUTE OF NUCLEAR CHEMISTRY AND TECHNOLOGY, Warsaw

Centre for Radiochemistry and Nuclear Chemistry/Laboratory of  
Nuclear Analytical Methods [www.ichtj.waw.pl](http://www.ichtj.waw.pl)

Contact person: Jerzy Narbutt

nuclear chemistry,  
coordination chemistry MSc,  
PhD

## REPUBLIC OF HUNGARY

### *Dedicated NRC programme(s)*

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### UNIVERSITY OF PANNONIA, Veszprem

Department of Radiochemistry and Radioecology <http://radio.mk.uni-pannon.hu>

Contact person: Ass. Prof. Zoltan Nemeth

1) BSc in environmental engineering:  
specialization radioecology = *30/210  
credits*

2) MSc in environmental engineering:  
specialization radioecology = *47/120  
credits*

3) MSc in chemical engineering:  
radiochemical technology = *56/120  
credits*

4) PhD in chemistry: specialization  
radiochemistry = *20/180 credits*

\* for other students basics of radiation,  
radioecology etc. at BSc level

	<i>NRC course(s) under other educational programme(s)</i>	<i>Level</i>
<b>EÖTVÖS LORÁND UNIVERSITY, Budapest</b>		
Faculty of Science, Institute of chemistry, Department of Analytical Chemistry (Laboratory of Nuclear Chemistry) <a href="http://www.chem.elte.hu/en/main">http://www.chem.elte.hu/en/main</a> <a href="http://www.chem.elte.hu/departments/magkem/eng/index.html">http://www.chem.elte.hu/departments/magkem/eng/index.html</a> Contact person: Prof. Zoltán Homonnay	nuclear chemistry, nuclear methods in materials science, nuclear techniques in structural chemistry	MSc
<b>DEBRECEN UNIVERSITY</b>		
Department of Colloid and Environmental Chemistry, Isotope and Environmental Chemistry Group <a href="http://dragon.unideb.hu/~kolloid/isotope/main_i.html">http://dragon.unideb.hu/~kolloid/isotope/main_i.html</a> Contact person: Ass. Prof. Noemi M. Nagy	basic radiochemistry courses, radioanalytical chemistry = 8 credits	BSc, MSc
Institute of Nuclear Research, Department of Environmental Physics <a href="http://www.atomki.hu/deat/">http://www.atomki.hu/deat/</a> Contact person: Dr. István Csige	radiopharmacy = 2 credits	MSc
<b>BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS</b>		
Faculty of Natural Sciences, Institute of Nuclear Techniques <a href="http://www.reak.bme.hu/en/home.html">http://www.reak.bme.hu/en/home.html</a> Contact person: Dr. Imre Szalóki	radiochemistry, radiation chemistry	MSc
<b>REPUBLIC OF SLOVENIA</b>		
<i>Dedicated NRC programme(s)</i>		
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	<i>NRC course(s) under other educational programme(s)</i>	<i>Level</i>



**JOŽEF STEFAN INTERNATIONAL POSTGRADUATE  
SCHOOL, LJUBLJANA (in collaboration with J Stefan Institute,  
University of Nova Gorica, University of Ljubljana, University of  
Primorska)**

<http://www.mps.si/splet/index.asp?lang=eng>

J Stefan Institute, Group for Radioecology

<http://en.environment.si/section-structure/group-for-radioecology/>

Contact person: Dr. Borut Smodiš

radioecology, radioactive and nuclear methods for the study of processes MSc, PhD

## **RUSSIA**

*Dedicated NRC programme(s)*

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### **MOSCOW STATE UNIVERSITY**

Department of Chemistry, Division of Radiochemistry

<http://www.chem.msu.ru/eng/chairs2/radio/welcome.html>

Contact person: Prof. Vladimir M. Fedoseyev

1) PhD in chemistry: specialization radiochemistry

\* introduction to radiochemistry and radioecology at lower levels

### **ST. PETERSBURG STATE UNIVERSITY**

Department of Radiochemistry <http://www.spbu.ru/e/>

Contact person: Prof. Juri Vlasov

1) BSc in chemistry, further specialization (diploma) in radiochemistry

**Mendeleev Russian Chemical-Technological University**

**Lobachevsky Nizhny Novgorod State University**

**Eltsin Ural Federal University**

## **SLOVAKIA**

*Dedicated NRC programme(s)*

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**COMENIUS UNIVERSITY, BRATISLAVA**

Faculty of Natural Sciences, Department of Nuclear Chemistry

<http://www.fns.uniba.sk/index.php?id=2389>

Contact person: Prof. Pavol Rajec

1) MSc in chemistry: specialization  
Nuclear Chemistry and Radioecology  
= 100/120 credits2) PhD in chemistry: specialization  
Nuclear Chemistry = 218/240 credits\* basic radiochemistry (I-II) also at  
BSc level

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***NRC course(s) under other Level  
educational programme(s)***

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**TECHNICAL UNIVERSITY OF ZVOLEN**Faculty of Ecology and Environmental Sciences, Department of  
Environmental Engineering <http://www.tuzvo.sk/en>

Contact person: Prof. Juraj Ladoomerský

radioecology, nuclear  
analytical methodsBSc,  
MSc**SPAIN***Dedicated NRC programme(s)*

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***NRC course(s) under other Level  
educational programme(s)***

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**UNIVERSITY OF BARCELONA (Universitat de Barcelona)**Faculty of Physics and Chemistry, Department of Analytical  
Chemistry [http://www.ub.es/dqa/eng/index\\_eng.html](http://www.ub.es/dqa/eng/index_eng.html)

Contact person: Prof. Montse Llauro

radiochemical techniques

MSc

**UNIVERSITY OF GRANADA (Universidad de Granada)**Faculty of Science, Department of Inorganic Chemistry  
<http://qiserver.ugr.es/asignaturas.html>

radiochemistry

MSc

Contact person: Prof. María Domingo García

## SWEDEN

### *Dedicated NRC programme(s)*

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#### **CHALMERS UNIVERSITY OF TECHNOLOGY, Gothenburg**

Department of Chemical and Biological Engineering, Nuclear Chemistry

<http://www.chalmers.se/chem/EN/divisions/nuclear-chemistry>

Contact person: Prof. Christian Ekberg

1) MSc in Nuclear Engineering: specialization Nuclear chemistry = 75/120 credits

2) MSc in Chemistry and Biosciences: specialization Nuclear Chemistry = 45/120 credits

3) PhD in Chemistry: specialization Nuclear Chemistry = 60/60 credits

#### **KTH ROYAL INSTITUTE OF TECHNOLOGY, Stockholm**

The School of Chemical Science and Engineering, Department of Chemistry, Nuclear Chemistry

[http://www.kth.se/che/divisions/nuchem/valkommen-till-karnkemi-pa-kth-1.16841?l=en\\_UK](http://www.kth.se/che/divisions/nuchem/valkommen-till-karnkemi-pa-kth-1.16841?l=en_UK)

Contact person: Prof. Mats Jonsson

1) MSc in Chemical engineering or Molecular Science and Engineering: “specialization” Nuclear chemistry = 52,5/120 credits

2) PhD in Chemistry: specialization Nuclear Chemistry

**UPPSALA UNIVERSITY** (in collaboration with Uppsala Imanet AB, GE Healthcare, AstraZeneca AB and Affibody AB)

<http://www.uu.se/en/node605?pKod=MMN2M&lasar=10%2F11>

Rudberg Laboratory

Contact person: Assoc. Prof. Bo Stenerlöw

1) MSc in Medical Nuclide Techniques: 2<sup>nd</sup> year focus on radiochemistry

## SWITZERLAND

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s)*      *Level*

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**UNIVERSITY OF BERN** in collaboration with Paul Scherrer  
Institute

Department of Chemistry and Biochemistry, Radiochemistry Group  
[http://www.dcb.unibe.ch/content/index\\_eng.html](http://www.dcb.unibe.ch/content/index_eng.html)

<http://lch.web.psi.ch/webcontent/Laboratory/organigram.html>

Contact person: Prof. Dr. Andreas Türler

nuclear and radiochemistry  
courses, seminar on radio-  
and environmental chemistry  
> 20 credits

BSc,  
MSc,  
PhD

**UNIVERSITY OF ZURICH**

Institute of Inorganic Chemistry <http://www.aci.uzh.ch/>

Contact person: Prof. Roger Alberto

radiochemistry

MSc

**TECHNICAL UNIVERSITY OF ZURICH, ETH (Die  
Eidgenössische Technische Hochschule Zürich)**

Swiss Federal Institute of Technology Zürich, Institute of  
Pharmaceutical Sciences, The Center of Radiopharmaceutical  
Sciences (in collaboration with Paul Scherrer Institute and University  
Hospital Zürich) <http://zrw.web.psi.ch/>

Contact person: Prof. Roger Schibli

radiopharmaceutical  
chemistry (also as a module  
under *European  
specialization certificate in  
radiopharmacy*)

MSc

**TURKEY**

*Dedicated NRC programme(s)*

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*NRC course(s) under other educational programme(s)*      *Level*

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**EGE UNIVERSITY, Izmir**

Department of Chemistry, Division of Nuclear Chemistry

nuclear chemistry

<http://sci.ege.edu.tr/~kimya/content.php?content.39>

Contact person: Prof. Turan Ünak

### MIDDLE EAST TECHNICAL UNIVERSITY (METU), Ankara

Chemistry Department

nuclear analytical techniques, BSc,  
radiochemistry laboratory  
nuclear (and radiation) MSc  
chemistry (PhD)

<http://curie.chem.metu.edu.tr/>

Contact person: Prof. İlker Özkan

### BILKENT UNIVERSITY, Ankara

Science Faculty, Department of Chemistry

nuclear chemistry BSc

<http://www.fen.bilkent.edu.tr/~cvchem/>

Contact person: Prof. Hasan Erten

## UK

### *Dedicated NRC programme(s)*

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### UNIVERSITY OF LOUGHBOROUGH

Department of Chemistry, Environmental Radiochemistry Group

<http://www.lboro.ac.uk/departments/cm/>

Contact person: Prof. Peter Warwick

1) BSc (MChem) in Chemical  
Sciences: specialization  
radiochemistry = 20/120 credits

2) MSc in Chemical Sciences:  
specialization radiochemistry = 20/120  
credits

**KING'S COLLEGE LONDON** in collaboration with Cancer  
Research UK, GE Healthcare, Tyco, Siemens Medical, Imaging  
Equipment Ltd and the Engineering and Physical Sciences Research  
Council

<http://www.kcl.ac.uk> School of Medicine

contact person: Prof. Phil Blower

1) MSc in Radiopharmaceutics & PET  
Radiochemistry = 90 credits

*NRC course(s) under other educational programme(s)*      *Level*

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**UNIVERSITY OF MANCHESTER** in collaboration with University of Sheffield

School of Chemistry/ NUCLEAR FIRST DOCTORAL TRAINING CENTRE <http://www.chemistry.manchester.ac.uk/>

Contact person: Prof. F.R. Livens

nuclear and radiochemistry,  
broad variety of NRC courses  
under doctoral training programme      BSc  
PhD