

Job seeking information for Bioscience degree students

This handout contains information on the following:

- Typical employers of Bioscience graduates and example of job roles that are undertaken by Bioscientists
- Examples of jobs undertaken by recent University of Portsmouth School of Biological Science students
- Information on Biotechnology, Bioinformatics and Marine Biology
- Useful websites – recruitment agencies , professional bodies, information sources and employer

Who employs Bioscientists?

Industry

Pharmaceutical
 Agrochemical
 Cosmetics and Toiletries Industries
 Food and Drink
 Water Companies
 Contract Laboratories

Public Sector

Hospitals
 Health Protection Agency
 Blood Transfusion Service
 Cancer Research Institutes
 Civil Service Laboratories
 Research Council Laboratories
 Universities

Some examples of jobs that directly relate to studying a Bioscience degree

Animal Nutritionist
 Archaeologist
 Brewing Technologist
 Conservation Officer
 Environmental Management
 Field Trials Officer
 Laboratory Technician
 Clinical Scientist
 Curator
 Environmental Health Officer
 Food Scientist
 Teacher/Lecturer

Pharmacologist
 Science Writer/Journalist
 Toxicologist
 Water Quality Control
 Forensic Scientist
 Biomedical Researcher
 Botanist
 Waste Manager
 Wildlife Centre Manager
 Soil Scientist
 Research Scientist

Recent career destinations of University of Portsmouth School of Biological Science graduates

- Medical Sales Rep
- Clinical Trials Associate
- Clinical Research Associate
- Pharmacologist
- Scientist, Industrial Research
- Regulatory Affairs Officer
- Quality Assurance Manager
- Patent Attorney
- Soil Scientist
- Biological Field Surveyor
- Environmental Consultant
- Conservation Adviser
- Environmental Manager
- Environmental Education Officer
- Marine Scientist
- Nature Conservation
- Microbiologist
- Biomedical Scientist
- Clinical Biochemist
- Clinical Microbiologist
- Industrial Microbiologist
- Industrial Research Scientist
- Research Scientist (Life Sciences)
- Research Scientist (Medical)
- Health & Safety Inspector
- Environmental Health Officer
- Health Promotion
- Occupational hygienist
- Toxicologist
- Trading Standards Officer
- Ergonomist
- Radiation Protection Practitioner
- Scientific Journalist
- Editorial Assistant
- Lecturer FE/HE
- Teacher Primary/Secondary
- Laboratory Technician
- Laboratory Assistant

This information has been taken from the Destinations of Leavers surveys for the School of Biological Science at the University of Portsmouth 2002 – 2007.

To find out more about any of the above job titles you can conduct research by using the following websites: www.prospects.ac.uk – go to Jobs and Work and use the A-Z link or www.connexions-direct.com/Jobs4u - use the A-Z link. Additionally, there is useful information on the Institute of Biology's website www.iob.org - go to Education and Careers where there is a range of profiles describing the work of different people working in bioscience fields.

Some careers information is harder to access and for this reason, more detailed information on Biotechnology, Bioinformatics and Marine Biology has been provided in this leaflet.

Biotechnology involves making a micro-organism capable of producing desirable biochemicals not available via chemical synthesis, traditional employment using biotechnology included brewing and dairy products. Microbiology is the main discipline plus biochemistry, molecular biology, genetics and immunology. Most job roles are at postgraduate/PhD/PostDoctoral level.

Possible employment areas include:

Medical and Veterinary fields; Genetic engineering – plants, crops; Health care products – antibiotics, hormones; Agriculture – nitrogen fixation, composting
Metal extraction – copper; Sewage and waste treatment – pollutant degradation;
Energy industry – generating methane fuel from sewage and effluents

Possible job roles:

Bioprocess technology and development
Fermentation Scientist
Genetic manipulation and engineering
Protein engineering
Cell Culture
Production
Quality Assurance

Major employers:

Small companies – University Science Parks and new companies providing specialist products

Large pharmaceutical and chemical companies such as Unilever UK, GSK, Pfizer

Food companies – Nestle, Cadbury Schweppes

Public Sector research establishments such as the Food Research Association and the Brewing Research Foundation

Water companies and Universities

Useful links:

www.bbsrc.ac.uk – the Biotechnology and Biological Sciences Research Council

www.bioindustry.org – Bioindustry Association (the trade association for innovative enterprises in the UK's bioscience sector)

www.londonbiotechnology.co.uk – London Biotechnology Network LBN is a business network of over 800 organisations and 2000 members from the biopharmaceutical sector, academia, venture capital community, legal and accounting services, and consultants with an interest in the sector. www.biohealthmatics.com – BioHealthMatics (Career Networking Portal for Biotechnology and Healthcare IT)

www.bionow.co.uk - Regional biotechnology centred in NW England

www.biofind.com – worldwide online network for Biotechnology industry

Bioinformatics has grown from the application of information science, computer science, statistics and mathematics to biological issues. It involves getting all biological information (proteins, DNA and mRNA) logged, coded and or retrieved in an easily accessible format. Bioinformatics professionals therefore might come from an IT or from a Biological background and would have a postgraduate qualification in Bioinformatics.

Possible employment areas would include large research institutes such as the Wellcome Trust Sanger Centre, and the European Bioinformatics Institute. Large pharmaceutical companies recruit bioinformatics specialists as do smaller organisations who are using bioinformatics in agricultural applications, industrial organisms and personal care products.

Useful links:

www.prospects.ac.uk – go to Postgrad Study and then Search courses to find Bioinformatics postgraduate courses

www.sanger.ac.uk – Sanger Institute (Cambridge)

www.ebia.ac.uk – European Bioinformatics Institute

www.biohealthmatics.com – BioHealthMatics (Career Networking Portal for Biotechnology and Healthcare IT)

www.biofind.com – worldwide online network for Biotechnology industry

www.bionow.co.uk - Regional biotechnology centred in NW England

Marine Biology

To work as a Marine Biologist per se, a masters or PhD would be required. Marine Biologists work for research institutes, universities, government research labs, marine or environmental consultancies as well as the water industry, fisheries, fish farming, pharmaceuticals and the oil industry. Relevant work experience is important and ways to achieve this include volunteering at a marine research laboratory or at an aquarium working as a tour guide or aquarist or working on a voluntary basis for a marine conservation body eg coastal wildlife trusts, Coral Cay Conservation - www.coralcay.org Earthwatch Institute - www.earthwatch.org, Blue Ventures – www.blueventures.org and the Wildlife Trust - www.wildlifetrust.org.

Other information sources:

Sea Grant Marine Careers - www.marinecareers.net - A comprehensive overview of careers in marine biology and the other marine sciences

Marine Institute - www.marine.ie

National Oceanography Centre - www.noc.soton.ac.uk

SeaWeb - www.seaweb.org

Society for Underwater Technology - www.sut.org.uk

Scientific Recruitment Agencies and Science Job Websites

Acumen - www.acumenltd.co.uk - a scientific sales recruitment agency specialising in sales and marketing personnel for the hospital and laboratory markets.

Camco - www.camcoscientific.co.uk - specialist suppliers of scientific staff

CK Associates - www.ck-associates.co.uk - recruitment site for the chemical, pharmaceutical and biotechnology industries.

Cranleigh Scientific - www.cranleighscientific.co.uk - specialist scientific and renewable energy recruitment agency

Earthworks – www.earthworks-jobs.co.uk – marine and environmental vacancies

Evolution Recruitment Consultants - www.evolutionconsultants.com - specialists in Bioscience

Flame Pharma - www.flamepharma.co.uk - specialise in recruiting professionals within Clinical Research, Clinical Management, Pharmaceutical, Regulatory Affairs, Medical Writing, Medical Affairs, Pharmacovigilance & Drug Safety and Analytical Chemistry and Medical/Pharmaceutical Sales & Marketing Sectors.

Green Jobs Online www.greenjobsonline.co.uk

Helix Group www.helixgroup.co.uk – Medical/Healthcare/Scientific/Laboratory sales and marketing positions

Hudson Shribman Scientific Recruitment - www.hudson-shribman.co.uk – specialist scientific recruitment agency

International Healthcare Recruitment - www.healthcarerecruit.com - pharmaceutical and healthcare jobs worldwide.

Jobs in Pharma - www.jobsinpharma.co.uk – jobs in the pharmaceutical industries

Kelly Scientific - www.kellyscientific.com - clinical recruitment

Lab Support UK - www.labsupport.co.uk - short and long term posts.

Langton Howarth www.langtonhowarth.co.uk – scientific recruitment specialists

Life Science Jobs - www.pharmajobs.com

Matchtech - www.matchtech.com - technical recruitment consultancy in Engineering, Construction, Manufacturing, IT and Science

Morson International - www.morson.com/div_scientific.asp

New Discovery Recruitment www.new-dr.com - a specialist scientific technology recruitment consultancy

Non Stop www.nonstop-pharma.com recruitment for Pharmaceutical, Biotechnology and Medical Devices industries

PDR Partners - www.pdrpartners.co.uk - pharmaceutical-related vacancies (e.g. medical writer) plus useful careers articles

Penny Warren Recruitment - www.pennywarren.co.uk - Scientific recruitment consultants

Reed Scientific www.reed.co.uk/scientific

Sci-Temps - www.scitemps.co.uk - scientific recruitment specialist

Seltek Consultants www.seltekconsultants.co.uk Specialists in the recruitment of technical sales people at all levels from graduate to sales director.

SRG Labstaff - www.science-recruitment.com - One of the biggest agencies, they have short and long term posts.

Bioscience Information Sources

Environmental Careers - www.environmentalcareers.org.uk

Environmental Data Services - www.ends.co.uk

The Biochemist - www.biochemist.org/bio - magazine of the UK Biochemical Society

Developments in the pharmaceutical industry - www.bioportfolio.com/index.shtml

Jobs in the Academic Community www.jobs.ac.uk

LifeSciencesWorld - www.lifesciencesworld.com - an online resource for biotechnology, pharmaceutical, medical devices and life sciences industries

Times Higher Educational supplement - www.timeshighereducation.co.uk - academic vacancies

Nature Magazine www.nature.com/naturejobs excellent careers information and range of postgrad, PHD and postdoc positions

New Scientist www.newscientistgraduate.com access the job adverts in New Scientist here.

Pharmafile www.pharmafile.com - Directory of pharmaceutical companies in the UK (use the advanced search)

Science Careers <http://sciencecareers.sciencemag.org> from the journal "Science"

Microbiology Information Portal
www.microbes.info/resources/Employment_and_Careers careers section

Wellcome Trust www.wellcome.ac.uk Sources of Biomedical Research Funding plus a Biomedical Research Assistant Job Database

Hospital and Other Health Service Addresses www.nhs.uk

Sea Grant Marine Careers - www.marinecareers.net - A comprehensive overview of careers in marine biology and the other marine sciences

Bioscience Institutes, Associations and Societies

Association of the British Pharmaceutical Industry (ABPI) www.abpi-careers.org.uk contains **list of large pharmaceutical recruiters**, many of which will advertise vacancies on their websites.

Biotechnology and Biological Sciences Research Council www.bbsrc.ac.uk main funding body for postgraduate study in Bioscience

British Pharmacological Society www.bps.ac.uk

The Biochemical Society www.biochemist.org/jobs The Society's online magazine Biochemist e-volution now has job adverts.

European Association of Science Editors www.ease.org.uk

European Medical Writers Association www.emwa.org

Forensic Science Society www.forensic-science-society.org.uk

Medical Research Council www.mrc.ac.uk - main funding body for postgraduate research in medicine.

Clinical Biochemistry www.acb.org.uk

Clinical Microbiology www.socgenmicrobiol.org.uk

Clinical Cytogenetics www.cytogenetics.org.uk

Immunological Scientists www.immunology.org

British Society for Histocompatibility and Immunogenetics www.bshi.org.uk

Marine Conservation Society - www.mcsuk.org

Natural Environment Research Council – www.nerc

Marine Biological Association - www.mba.ac.uk

Challenger Society for Marine Science www.noc.soton.ac.uk/OTHERS/CSMS/

Society for Underwater Technology - www.sut.org.uk

Bioscience Employers

Astra Zeneca Pharmaceuticals www.astrazeneca.com

Abbott Laboratories www.abbott.com

Akzo Nobel www.akzonobel.com/careers

AMGEN www.amgen.com

Avecia Biologics www.avecia.com/biologics/default.htm

Bayer Jobs www.jobs.bayer.co.uk

The Biotechnology and Biological Sciences Research Council

www.bbsrc.ac.uk/organisation/vacancies.html many research institutes including:

Institute of Food Research www.ifr.bbsrc.ac.uk

John Innes Centre www.jic.bbsrc.ac.uk

Bristol-Myers Squibb www.bms.com

Cancer Research UK www.cancerresearchuk.org

CEFAS www.cefasc.co.uk Centre for Environment, Fisheries and Aquaculture Science

Ciba www.cibasc.com

Covance www.covancecareers.com

Eli Lilly and Company www.lilly.com Pharmaceutical Company

European Patent Office www.european-patent-office.org

GSK www.gsk.com/careers/joinus.htm

Haseltine Lake & Co. www.HaseltineLake.com large patent attorneys

Health Protection Agency www.hpa.org.uk/hpa/hr/index_recruit.htm

Huntingdon Life Sciences www.huntingdon.com world's largest independent non-clinical contract research organisation

Innovex www.innovex.com

Department for Environment, Food and Rural Affairs www.defra.gov.uk

Marks & Clerk www.marks-clerk.com (patent attorneys)

Novartis www.novartis.com

Orchid Cellmark - www.orchid.com – specialists in DNA testing

Organon www.organon.com

Parexel www.parexel.com

Pfizer www.pfizer.co.uk

Procter and Gamble www.pg.com

Severn Trent Water www.stwater.co.uk

Student Force www.studentforce.co.uk – charity that focuses on boosting employability as well as sustainability of communities and employers