

## Human Biology with Professional Placement MSci (Hons)



Human biology is crucial to the continual development of the fields of medicine, sports science, nutrition, fertility and other areas. Our flexible BSc degree course promotes the development of a broad and systematic understanding of biological principles, and the skills to place this understanding in the context of the human condition. A placement is intercalated between the second and final year, and allows students to apply their skills at an early stage in industry, non-governmental or public sector organisations.

2014 National Student Survey "95% of students said that overall they were satisfied with the quality of our Human Biology course."

**[Study here and find out why the University of Birmingham was awarded The Times and The Sunday Times University of the Year 2013-14](http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)**  
<http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx>

### Course fact file

UCAS code: C104

Duration: 4 years

Places Available: 60 (The School recruits towards an overall target of 250 with flexible quotas between individual

Applications in 2013: 223

Typical Offer: AAA (**[More detailed entry requirements and the international qualifications accepted can be found in the course details \(? OpenSection=EntryRequirements\)](#)**)

Start date: September

### Contact

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**[School of Biosciences \(/schools/biosciences/index.aspx\)](/schools/biosciences/index.aspx)**

### Details

We are all fascinated by how our bodies work. Recent exciting advances such as the human genome sequence or the culturing of pluripotent stem cells have given human biology fascinating new perspectives and promise new avenues to treat complex diseases. Over the next decade, we will see the impact of these developments in our daily lives, especially in areas such as medicine and health.

Our Human Biology programme draws on our research expertise in this area. The flexible modular course structure allows students in the second and final year to tailor their programme of study to individual interests and ambitions. The course particularly emphasises practical training and research skills, as well as the development of transferable skills that can be deployed in a wide range of professional settings. The Placement year, which is intercalated between the second and final years of the course, is invaluable in providing students with opportunities for networking, on-the-job training and honing professional skills early on.

### Why study this course

In today's competitive jobs market having work experience will look excellent on your CV. The experience of working as a professional bioscientist during the course of your degree will also help you to define your career objectives.

**Humans are arguably the most complex living species on this planet.** From genetics to embryonic development to mechanisms of disease, studying human biology entails many facets. As a degree course, Human Biology is a platform from which you can embark on diverse careers, not limited to the life sciences.

The School of Biosciences encompasses over 60 academic staff with research interests across the full spectrum of biology. Immunity and infection, cancer biology, cellular signalling, and human reproduction are represented as well research into human blood disorders, such as leukaemia or cardiovascular disease.

With a Human Biology degree, you will acquire a wide range of skills that enable careers not just in the life science, but across a wide range of professions. Taking advantage of one of the 4-year course options will add value to your CV and help you to stand out. However, a University degree course is not just about a professional education, it is first and foremost about studying what fascinates us most. For inspiration, check out our collection of **[related research stories](#)**  
<http://www.birmingham.ac.uk/schools/biosciences/research/showcase/explore.aspx>.



2013 National Student Survey "96% of students said that overall they were satisfied with the quality of our Biology and Related Sciences courses"

## Modules

The Human Biology course offers you a comprehensive view of man as a biological species. You will study genetics, physiology, cell biology, evolution and development. Each year of study will feature one or several signature modules that are exclusive to the Human Biology course, along with modules that draw on relevant content from our full spectrum of degree courses.

The modular structure of the course allows you to follow your specific interests in Human Biology. Following a first year, where all modules compulsory, you will enjoy an increasing level of freedom of choice in the 2nd and final year. Below we outline the modules available for each of the three years.

For more detailed descriptions of individual modules [download Human Biology Module Descriptions \(PDF 385KB\) \(/Documents/colleges/biosciences/HumanBiologyModuleDescriptions\(PDF117KB\).pdf\)](#).

### First Year

The Human Biology course begins with an introduction to key concepts in biology, from molecular and cellular features to the concept of evolution, including genetics and physiology. Skills training is an integral part of the course at all levels.



#### First year modules

##### Key modules

**Human Biochemistry** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=00808>) - covers 3 main areas of human biochemistry: human nutrition and digestion; biological enzymes and their regulation; and basic primary metabolism and its control.

**Introduction to Evolution and Animal Biology** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=22924>) | [Watch video \(/undergraduate/courses/biosciences/module-evolution.aspx\)](#) - An overview of introduction from the pre-biotic era to Darwin and his impact. Natural selection, the origins of altruism and sexual reproduction, genetic determinants of evolution.

##### Other modules

**Cell Biology and Physiology** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23318>) Tissues, organelles, reproduction and development.


**Genetics I** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23320>) Storage of genetic information, gene expression and regulation, mitosis and meiosis, gene linkage and chromosome mapping.

**Biochemistry** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=01331>) Fundamental biochemical processes taking place inside cells

**Microbiology and Infectious Disease** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23321>) | [Watch video \(/undergraduate/courses/biosciences/module-bio153-microbiology-infectious-disease.aspx\)](#) - Broad introduction to microbiology with a focus on infectious disease, covering bacteria, fungi, protists, archaea and viruses.

**Skills for Biosciences** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=15847>) Laboratory skills, transferable skills training including basic mathematics, IT, literature search and scientific writing.

For more details on individual modules, follow the links or download a document with short module descriptions for the Biochemistry courses here: (link to Human Biology module descriptions).

 Beth Pattle, first year student "I chose human biology because I really felt that I wanted to specialise after previously studying a wide spectrum of topics at A level. I have thoroughly enjoyed my first year; it is hard work but very rewarding."

### Second Year

The second year features a combination of core modules that all students on the Human Biology course follow, and elective modules, where you can start to define your personal direction in the course.



#### Second year modules

**Core modules** (taken by all students on the Human Biology programme)

**Molecular Biology and its Applications** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=19822>) - Genetic analysis and gene cloning, DNA fingerprinting and forensics, genomics and computational approaches to genetics.

**Communications and Skills in Biosciences** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=24336>) - Science communication in writing and oral presentations, ethics in science, analysis of the scientific literature.

**Human Evolution, Adaptation and Behaviour** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23327>) - The module considers 5 million years of human evolution, including bipedalism, culture, diet, language and human adaptations.

and/or

Human Structure and Function – Human anatomy and how it relates to its function and evolutionary origin.

Choose four elective modules from:

#### **Cell and Developmental Biology**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=24985>) – Development of multicellular organisms, interaction between cells and the cellular matrix, regulation of stem cell function.

#### **Topics in Medical Biosciences**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=18540>) – Neurobiology and neurotransmitters, pharmacology and anaesthetics, blood constituents and haemostasis, complement and immunity.

**Genetics II** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=13160>) – Organisation of genes and genomes, generation of genetic diversity, gene transmission and analysis of problems in transmission and molecular genetics.

**Microbes and Man** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=22397>) – The impact of microbes on humans, bacteria, fungi and viruses, common themes of infectious disease mechanisms.

#### **Animal Sensory Systems, Neurobiology and Behaviour**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=22654>) – This module explores how the central nervous system translates sensory stimuli to behaviour. Topics include comparative neurobiology, biological timekeeping, sensory biology, learning and behaviour and others.

#### **Membranes, Energy and Metabolism**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23328>) – Biological membranes and their role in energy metabolism, regulation of metabolism by hormones and other factors

### Third year (Placement year)

During the second year, students prepare their placement applications, aided by a range of support mechanisms. We have a large database of organisations that accept placement students, and are frequently approached by companies or organisations offering placement opportunities in the UK and elsewhere in Europe. The placement year is academically assessed by a report and a seminar presentation at the conclusion of the year.

### Final Year

The core component of the final year is the Project, which covers 40 of 120 final year credits and stretches over both Semester 1 and 2. In dialogue with a lecturer or professor, you will do your own research and be led to intellectual independence. A diverse spectrum of elective modules allows you to explore individual facets of human biology according to your personal preference and interests. You may choose between a laboratory project, a two-part library research or a computing-based project. Students choose their project from an extensive list near the end of their 2nd year. Some even arrange a project independently in collaboration with an academic member of staff. Whichever path you choose, you will find that the project is particular highlight of your academic training and experience.



### Final year modules

#### Core content

Project

Choose four elective modules\* from:

#### **Human Reproductive Biology and Development**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=21189>) – A comprehensive view on reproductive biology, stem cells and embryonic development. Topics include gametogenesis, gamete maturation and transport, infertility and controversies surrounding reproductive technologies.

**Human Evolution** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=25349>) – Genetics and genomics, development of bipedalism, development of society and how humans' activity applies selective pressure on the evolution of HIV.

Mechanisms of Toxicity and Disease – Metabolic detoxification, chemical carcinogenesis, genetic toxicity.

**Cancer Biology** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=21893>) – Regulation of cell division and aberrations in malignant tumours, genetic bases of tumourigenesis, programmed cell death.

**Cellular Signalling** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=25351>) – Signal transduction in and between cells, G-protein coupled receptors, phospholipid and Ca<sup>2+</sup> signalling, ligand-gated ion channels and electrical responses.

#### **Molecular Basis of Bacterial Infection**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23344>) | [Watch video](#) (</undergraduate/courses/biosciences/module-bio305-molecular-basis-bacterial-infection.aspx>) – Evolution of bacterial virulence, antibiotics and antibiotics resistance,

### **Advanced Topics in Animal Behaviour**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=22399>

- Enquiry-based learning in groups and individually on topics such as 'Why are animals built the way they are?', 'Paternity assurance and parental behaviours' and Consciousness in animals and concepts of self.

### **Whole-Organism Biology**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=22400>

- Biological clocks, neural basis of complex natural behaviour; learning, memory, orientation and navigation – how they help animals to cope with changing environmental conditions.

### **Structures of Destruction**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=15851>

- Bacterial and viral pathogens explored from the perspective of their molecular structures, protein misfolding and amyloid diseases.

### **Bacterial Gene Regulation**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=25343>

- How genes are switched on or off in response to external stimuli, how control of gene expression can be explored experimentally.

### **Molecular and Cellular Immunology**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=21894>

| [Watch video](#) (</undergraduate/courses/biosciences/module-bio388-molecular-cellular-immunology.aspx>) - Evolution of the immune system, innate immunity, cell biology of immunity, structural basis of discrimination between self and non-self.

### **Genetics III** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=21783>)

- Genetic variation in humans and model organisms, dynamics of chromosome organisation during mitosis and meiosis, genome instability.

### **Cellular Neurobiology** (<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=14675>)

| [Watch video](#) (</undergraduate/courses/biosciences/module-bio379-cellular-neurobiology.aspx>) - Neuronal function and neural development, synaptic function, transmitter receptors and ion channels.

### **Applied and Environmental Microbiology**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=23331>

- Microbial communities, how they compete, and behave socially.

### **Eukaryotic Gene Expression**

<http://cis67.bham.ac.uk:7782/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=03&pgCrse=11221>

- Control of gene transcription, chromatin structure, pre-mRNA processing, mRNA translation and degradation.

\* Modules run either in Semester 1 or Semester 2. Particular combinations of modules may not be advisable, especially if all 4 choices were to run in the same semester.

## Fees and funding

**Standard fees** (<http://www.birmingham.ac.uk/students/ug/courses/fees/standard>) apply - a standard fee for the year in industry is set for 2012/13 new entrants at £2,500.

Learn more about [fees and funding](/undergraduate/fees/loans.aspx) (</undergraduate/fees/loans.aspx>).

### Scholarships

Learn more about our [scholarships and awards](/undergraduate/fees/funding/index.aspx) (</undergraduate/fees/funding/index.aspx>).

## Entry requirements

**Number of A levels required:** 3

**Typical offer:** AAA

**Required subjects and grades:** Biology/Human Biology A level and one other from Chemistry, Computer Science, Environmental Studies, Geography, Geology, ICT, Maths, Physics, Psychology or Sports Studies/PE.

**General Studies:** We do not accept General Studies, Critical Thinking, Citizenship Studies, Applied Science, Communication and Culture, Critical Studies, Global Perspectives, Science in Society and World Development.

### Additional information:

**GCSE requirements:** Five GCSEs at grade C (minimum) including English and Mathematics and grade B in Chemistry (or Double Award/Integrated Science) if Chemistry is not offered at A or AS Level.

The typical offer for the Professional Placement course is higher than that for the corresponding three year BSc degree course. However, all candidates who firmly accept the offer as their first choice will be automatically offered a place on the corresponding three year course should they fail to meet the higher, but meet the standard offer.

BTEC Level 3 Extended Diploma (Applied Science) is accepted only in combination with a science subject at GCE A2 level at grade A. Other qualifications are considered – learn more about [entry requirements](http://www.birmingham.ac.uk/students/ug/requirements) (<http://www.birmingham.ac.uk/students/ug/requirements>).

### International students:

International Baccalaureate Diploma: 36 points excluding bonus points from TOK and Extended Essay. 6, 6, 6 at HL to include Biology and one other science at HL. 5 points in each of SL English and Maths if not offered at GCSE or equivalent.

Standard English language requirements apply



Learn more about [international entry requirements \(http://www.birmingham.ac.uk/students/ug/requirements/international\)](http://www.birmingham.ac.uk/students/ug/requirements/international)

Depending on your chosen course of study, you may also be interested in the Birmingham Foundation Academy, a specially structured programme for international students whose qualifications are not accepted for direct entry to UK universities. Further details can be found on the [foundation academy web pages \(http://www.birmingham.ac.uk/students/foundation-academy/Pathways/index.aspx\)](http://www.birmingham.ac.uk/students/foundation-academy/Pathways/index.aspx).

## How to apply

Apply through UCAS at [www.ucas.com \(http://www.ucas.com/\)](http://www.ucas.com)

Learn more about [applying \(http://www.birmingham.ac.uk/students/ug/courses/apply\)](http://www.birmingham.ac.uk/students/ug/courses/apply)

NB You should apply through UCAS for your preferred four year option at the outset. You will still retain the flexibility of changing your registration to one of our three-year degree courses during the second year.

Adobe Flash Player or QuickTime is required for video playback. [Get the latest Flash Player](#) [Get the latest version of QuickTime](#)

## Key Information Set (KIS)

Key Information Sets (KIS) are comparable sets of information about full- or part-time undergraduate courses and are designed to meet the information needs of prospective students.

All KIS information has been published on the Unistats website and can also be accessed via the small advert, or 'widget', below. On the [Unistats website \(http://unistats.direct.gov.uk\)](http://unistats.direct.gov.uk) you are able to compare all the KIS data for each course with data for other courses.

The development of Key Information Sets (KIS) formed part of HEFCE's work to enhance the information that is available about higher education. They give you access to reliable and comparable information in order to help you make informed decisions about what and where to study.

The KIS contains information which prospective students have identified as useful, such as student satisfaction, graduate outcomes, learning and teaching activities, assessment methods, tuition fees and student finance, accommodation and professional accreditation.

## Related links

[Human Biology BSc \(Hons\) \(/undergraduate/courses/biosciences/human-biology.aspx\)](#)

[Human Biology MSci \(Hons\) \(/undergraduate/courses/biosciences/human-biology-msci.aspx\)](#)

[Undergraduate courses - School of Biosciences - Study here for your Bsc degree \(/schools/biosciences/courses/undergraduate/index.aspx\)](#)

[Human Biology Module Descriptions \(PDF 117Kb\) \(/Documents/college-les/biosciences/HumanBiologyModuleDescriptions\(PDF117KB\).pdf\)](#)

## Learning and teaching

**As a Birmingham student you are part of an academic elite and will learn from world-leading experts. From the outset you will be encouraged to become an independent thinker, however, you will also have plenty of contact with the staff who teach you.**

- **Lectures** - Your learning will take place in a range of different settings, from scheduled teaching in lectures and small group tutorials, to self-study and peer group learning. As well as traditional whiteboard and pen, our lecture theatres are equipped with the latest technology including movies and animations, molecular graphics and 'ask the audience?' style electronic voting systems.
- **Practical classes** - Laboratory-based practical work is an integral part of our degree. A typical practical session will last 3 hours allowing you to complete the work at your own pace. In addition to delivering important transferable skills, experience of practical work is essential if you wish to move into a research career and is valued by a wide range of employers.
- **Tutorials** - A personal tutorial system is an essential feature of our degree programme and your tutors will help you in three important areas: supporting your academic progress, developing transferable skills and helping with any welfare issues. From the outset, you will be assigned your own Personal Tutor who will get to know you as you progress through your studies, providing academic and welfare advice, encouraging you and offering assistance in any areas you may feel you need extra support to make the most of your potential and your time here at Birmingham.
- **Project (final year)** - A core component of your final year is the project, which principally comes in two forms: as a laboratory-based project or as an extended dissertation. In both situations, a lecturer or professor will guide and advise you. But the principal aim is to lead you to independence as a future graduate in your field.

You will join one of the research groups in the School for the laboratory-based project, and you will work on a topic or question that draws on current research activity. You will receive training in relevant lab techniques and you will have to document your work and its results in a thesis-like report.

The dissertation project asks you to explore the research literature in a narrowly defined area of scholarship, with three aims: one, to write a comprehensive review of that area, two, to explore analyse a small set of articles in depth, and three, to develop a new research proposal from your review and in-depth analysis.

Occasionally, human biology students take part in a final year field course, which is then counted as a full-fledged research project.

To begin with you may find university level education challenging, but we will support you to enable you to make this transition. You will have access to a comprehensive support system in the School, including personal tutors and welfare tutors, who can help with both academic and welfare issues throughout your course. You will have a formal transition review during your first year to check on your progress and identify areas where you may need some additional support, and the School's academic small group tutorial system will provide you with skills based support throughout the course.



**Take a virtual tour of one of our teaching labs**  
<http://www.birmingham.ac.uk/schools/biosciences/lab.aspx>

Adobe Flash Player or QuickTime is required for video playback. [Get the latest Flash Player](#) [Get the latest version of QuickTime](#)

Clinical anatomist, author and broadcaster Alice Roberts is the University's Professor of Public Engagement in Science. You can watch Alice's lecture Origins of us: Human Anatomy and Evolution above.

Alice carries out a range of academic duties which include teaching second year Biosciences students.

Our **Academic Skills Centre** (<https://intranet.birmingham.ac.uk/as/libraryservices/asc/index.aspx>) also offers you support with your learning. The centre is a place where you can develop your mathematical, academic writing and general academic skills. It is the centre's aim to help you to become a more effective and independent learner through the use of a range of high-quality and appropriate learning support services. These range from one-to-one support with mathematics and statistics based problems from experienced mathematicians, to workshops on a range of topics including note taking, reading, writing and presentation skills.

## Assessment methods

Studying at degree-level is likely to be very different from your previous experience of learning and teaching. You will be assessed in a variety of ways and each module is assessed independently. All modules contain some components of continuous assessment, that is, assessment taking place during the teaching terms. Continuous assessment usually accounts for about one-third of the mark for a given module, while two thirds are contributed by the end-of-year examination in the summer term. A subset of modules is assessed through course work, without an end-of-year examination.

At the beginning of each module, you'll be given information on how and when you'll be assessed for that particular programme of study. You'll receive feedback on each assessment within four weeks, so that you can learn from and build on what you have done. You'll be given feedback on any exams that you take; if you should fail an exam we will ensure that particularly detailed feedback is made available to enable you to learn for the future.

More information about assessment methods and feedback is given below:

- **Feedback** - You will make use of a wide range of types of feedback, such as: written feedback on your assessments, class feedback sessions and discussions with your tutor.
- **Examinations** ? The formal end-of-year examinations (in May/June of each year) are complemented by course work in the form of essays or reports, data handling or interpretation exercises, poster presentations, seminar presentations, group work and lab reports.
- **Projects and dissertations** ? You will choose the topic of your project from a wide range of titles. We offer a range of projects including practical work in the laboratory, field work, computer based projects, or literature reviews.

## Employability

Graduates of the University of Birmingham are highly regarded among employers in the UK, and a Human Biology degree from this University is an excellent qualification for securing your future career in a diverse range of industries and employment sectors. Whether you have a clear idea of where your future aspirations lie or want to consider the broad range of opportunities available once you have a Birmingham degree, our Careers and Employability Service can help you achieve your goal.

Advances in the biosciences are having a profound impact on our daily lives in areas from human health to conservation. Biotechnology, biological pharmaceuticals, and personalised medicine are key growth areas in the health sector. Environmental remediation, climate change and related themes pose multi-faceted challenges for the coming decades. Expert knowledge in biology and the life sciences will be in high demand for the foreseeable future, with bright prospects for exciting and rewarding careers in research, teaching, industry, the NHS and the public sector.

### Top career prospects for our Biosciences Graduates - Only Cambridge can offer better!

A significant number of our graduates choose to take a further degree, a Masters or PhD. For many career paths, a further degree is an essential stepping-stone, including (but not limited to) careers in research. Our graduates are highly sought after by universities around the world, many stay in Birmingham and join one of our prestigious research groups. Did you know that PhDs are fully funded and that postgraduate students receive a tax free stipend equivalent to a salary?

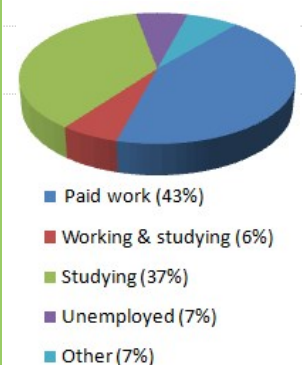
In order to help you build an attractive CV, bursaries from the University can help fund a summer internship in a research laboratory or in a company. Also, you can apply for one of the highly prestigious (and competitive) **Alumni Leadership Mentoring** (<http://www.birmingham.ac.uk/generic/internships/mentoring/almop.aspx>) or **Global Challenge programmes** (<http://www.birmingham.ac.uk/generic/internships/opportunities/globalchallenge/index.aspx>) of the University, which provide unique opportunities to see top notch organisation from an insider perspective. Furthermore, the Personal Skills Award (PSA) scheme gives formal recognition to skills you acquired outside the course, for instance when volunteering for a charity or taking on responsibility within the Guild of Students. Last not least, our 4-year course options (MSci, Professional Placement, Year Abroad) are key to giving you an edge in a competitive job market.

### Helping you find the right career

The University and the School of Biosciences provide a range of services to support you in finding a career you might enjoy and to build a CV that stands out from the crowd. During term time, professional career advisers hold weekly drop-in sessions, discussing with you how to prepare a CV and cover letters, the graduate application process and how to explore possible career paths. An annual Biosciences Careers Fair brings employers from the life sciences sector to our School for networking and discussions, while in the Biosciences Insight series, professionals highlight the diverse employment opportunities in the life sciences in weekly sessions throughout the term.

Our unique careers guidance service is tailored to your academic subject area. Our team source exclusive **work experience opportunities** (<http://www.birmingham.ac.uk/students/careers/work-experience.aspx>) to help you stand out amongst the competition, with **mentoring** (<http://www.birmingham.ac.uk/generic/internships/mentoring/index.aspx>), **global internships** (<http://www.birmingham.ac.uk/generic/internships/index.aspx>) and placements available to you. Once you have a career in your sights, one-to-one support with CV's and job applications will help give you the edge. In addition, our employer-endorsed award-winning **Personal Skills Award (PSA)** (<http://www.birmingham.ac.uk/students/careers/psa.aspx>) recognises your extra-curricular activities, and provides an accredited employability programme designed to improve your career prospects.

First destinations of University of Birmingham Biosciences graduates six months after graduation



Destinations of Leavers of Higher Education report (DHLE) 2011/12

93% Students agreed staff are good at explaining things



To see more details and compare with other courses

BSc (Hons) Human Biology with Professional Placement

Full time

Sandwich year

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