Is a career in Medical Sciences for me?

- Caring for others
- Changing Environment
- Challenging but rewarding work
- People Orientated
- Problem Solving
- Passion for science
What kind of job can a degree in Medical Sciences lead to?

And many more!

- Doctor
- Clinical Scientist
- Forensic Psychologist
- Nutritionist
- Dental Therapist
- Dentist
- Sports Psychologist
- Clinical Psychologist
Medical Science Graduates are some of the most desired graduates.
Medical Science Graduates are some of the most desired graduates.

By 2024 we need 13% more Medical Science Graduates in jobs.
Medical Science Graduates are some of the most desired graduates. By 2024 we need 13% more Medical Science Graduates in jobs. Medical Sciences are constantly evolving and growing, as the demand grows, the need for specialists increases!
Medical Science Graduates are some of the most desired graduates.

By 2024 we need 13% more Medical Science Graduates in jobs.

75% of Medical Science Graduates go straight into graduate level jobs.

With an average starting salary above £20,000.

Top salaries average around £70,000.

Medical Sciences are constantly evolving and growing, as the demand grows the need for specialists increases!
Why Newcastle?

Top 150 of world universities
QS World University Rankings 2018

Top 200 for graduate employability in the world
QS Graduate Employability World Rankings 2018

TEF Gold Teaching Excellence Framework

Number 1 place in the world to visit in 2018
Rough Guides 2018

RUSSELL GROUP
Why Newcastle?
Why Newcastle?
Medical Science Careers
Applying through UCAS

1. Register
   - Personal Details
   - Contact Details
   - Education
   - TOP TIP: Use an appropriate email address.

2. Choices
   - You can choose 5 different courses.
   - TOP TIP: Search UCAS to find courses.
   - 84 different universities offer biomedical sciences, so do your research.

3. Qualifications and Work Experience
   - Include ALL of your qualifications.
   - Add paid employment to your work experience but be sure to include any examples of voluntary work as well.

4. Personal Statement
   - Why the course?
   - Skills and achievements
   - Hobbies and interests
   - Work experience
   - Concluding statement
   - Your personal statement is 4000 characters of why a University should choose you!

5. Submit and Send
   - You now need to pay, submit and send.
   - For up to 5 choices the application fee is £25.
   - After submission you will be notified of changes to your application via UCAS Track.
1. Register

Personal Details
Contact Details
Education

TOP TIP
Use an appropriate email address
2. Choices

You can choose 5 different courses

84 different universities offer biomedical sciences, so do your research

TOP TIP
search.ucas.com to find a course
3. Qualifications and Work Experience

Include ALL of your qualifications.

Add paid employment to your work experience but be sure to include any examples of voluntary work as well.
4. Personal Statement

Your personal statement is 4000 characters of why a University should choose you!
5. Submit and Send
You now need to pay, submit and send.

For up to 5 choices the application fee is £25

After submission you will be notified of changes to your application via UCAS Track
Medicine (A100)

The study of the human body and human disease

Diagnosis and treatment of disease and the use of Modern Medicine

Academic, or technical degree awarded for studies in various fields related to Medicine and Surgery e.g. clinical skills
Medicine (A100)

- High Educational Standards
- State of the art clinical facilities
- Nationally recognised staff as academics
- Varied Teaching Methods

Medicine at Newcastle is an INTEGRATED course
After a Medical Degree

After a Medical degree you will be a Junior Doctor for 2 years. This is when you will complete your foundation training.

You will then undergo Core Medical Training (CMT) or Acute Care Common Stem Training (ACCS).

You then choose your speciality.

### General Practice
- 3 years of GP training
- Completion of MRCGP exam
- Register and practice as a GP

### Speciality Training
- Required if you would like to specialise in a certain area of medicine
- 4-6 years of speciality training.
  - In depth learning and practice in advanced areas and working more autonomously
- Gain Entry to the GMC specialist register
General Practice

3 years of GP training

Completion of MRCGP exam

Register and practice as a GP
Speciality Training

Required if you would like to specialise in a certain area of medicine

4-6 years of speciality training. In depth learning and practice in advanced areas and working more autonomously

Gain Entry to the GMC specialist register
Speciality Training

Required if you would like to specialise in a certain area of medicine

4-6 years of speciality training.
In depth learning and practice in advanced areas and working more autonomously

Gain Entry to the GMC specialist register
Physician Associate Studies (MSc)

Postgraduate qualification. Requires 2:1 classification undergraduate degree in bioscience related degree course

Programme teaches you how to work in the medical model, and trains you to pass an examination to qualify as a Physician Associate

Develops understanding of clinical practice
What does a Physician Associate do?

The course will prepare you for the National Physician Associate entrance exam. Successful completion of the exam allows you to work as a Physician Associate (PA) within the NHS.

You will gain skills in history taking, physical examination and diagnosis. You will also study clinical theory and undertake clinical placements.

Physician Associates are healthcare professionals with a generalist medical education who work alongside doctors, physicians, GPs and surgeons to provide medical care as an integral part of the multidisciplinary team.
Dentistry (A206)

The treatment and prevention of a wide range of diseases of the mouth from tooth decay to oral cancer

Covers Human Dental Function, Structure, behaviour, clinical dental studies and related sciences

Develop the skills required to provide for the complete oral health of patients
Dentistry (A206)

- High Educational Standards
- State of the art clinical facilities
- Nationally recognised staff as academics
- Varied Teaching Methods

"Dentistry at Newcastle is ranked 5th in the country."

*The Complete University Guide 2020*
After a Dentistry Degree

Dentistry is a fairly flexible career and selecting one particular branch does not mean that you cannot venture into others later on in your career.

Dental Foundation Training (DFT) is a minimum of 1 year, full-time in primary care i.e. NHS general dental services.

A second stage is undertaken in a hospital by those wanting to work in hospital dental services.
Oral and Dental Health Sciences (A207)

This practical degree equips you with the professional skills you'll need for a career as a dental hygienist and therapist.

Foundation in Biomedical Sciences providing a basis for clinical work as the course progresses. Clinical work is developed and established as course continues.

Clinical work forms a large part of your study programme, helping you develop professional skills for your future career. In your first year, you will begin clinical training. From your second year, you'll be treating patients at Newcastle Dental Hospital and other clinics, under supervision of our expert dental team.
Careers as a Dental Hygienist or Therapist

If you successfully complete this degree, you will be qualified to begin working as a dental hygienist therapist.

Dental Hygienist Therapists are required to enter their names in the Register for Dental Hygienist Therapists, which is kept by the Registrar of the General Dental Council. There is a registration fee and annual retention fee for this registration.

Being a dental hygienist therapist is a rewarding, exciting career that helps people take care of their oral health and avoid disease, with an increasing role in healthcare.
Careers as a Dental Hygienist or Therapist

Did you know?
Dental Hygienists and therapists carry out 70-80% of the work that dentists do!

If you successfully complete the National Certificate in Dental Hygiene or the Certificate in Dental Therapy, you will be qualified to begin working as a dental hygienist or therapist.

Dental Hygienists and Therapists are names in the Register of the General Dental Council. This means in order to work as a dental hygienist or therapist, you must be registered with the General Dental Council.

Being a dental hygienist or therapist is a career that helps people take care of their teeth. It is an increasing role in healthcare.
Duties
Duties

- Evaluating the dental and medical history of patients and planning their care
- Extracting deciduous teeth and restoration of teeth
- Providing preventative oral care
- Managing plaque-related diseases
- Scaling and polishing
- Non-surgical management of gum disease
- Taking impressions and radiographs
- Providing advice on diet and smoking cessation
- Teaching of oral hygiene methods
Oral and Dental Health Sciences (A207)

- ABB including Biology
- UCAT is not required
- 10 days work experience demonstrating commitment to programme
Oral and Dental Health Sciences (A207)

- ABB including Biology
- UCAT is not required
- 10 days work experience demonstrating commitment to programme

Why not try to shadow a Dental Hygienist or Therapist to experience the career?
Medical Science Careers
The School of Biomedical, Nutritional and Sport Sciences

Newcastle offer a range of courses to learn the science and impacting factors of health and human disease.

- Biomedical Sciences
- Physiological Sciences
- Sport and Exercise Science
- Pharmacology
- Biomedical Genetics
- Food and Human Nutrition

Biochemistry
The School of Biomedical, Nutritional and Sport Sciences

Newcastle offer a range of courses to learn the science and impacting factors of health and human disease

- Biomedical Sciences
- Physiological Sciences
- Biochemistry
- Sport and Exercise Science
- Pharmacology
- Biomedical Genetics
- Food and Human Nutrition

*Three of these are also available as an integrated masters degree*
BSc Biomedical Sciences (B940)
The study of how the human body is impacted by disease and how science can combat disease.

Graduate Profile
Charlie
Engagement Support Coordinator

Researcher Profile
Dr Neil Keegan
www.i-sense.org.uk

Developing nanobiotechnology to identify outbreaks of infectious diseases much earlier than ever before.

Royal Society of Biology Accredited

Integrated Masters Degree available
MSci Biomedical Sciences (B900)
BSc Physiology (B100)
The study of human body systems, how they control and maintain the whole body in healthy and diseased states

Graduate Profile
Paul
PhD with Northern Ireland Centre for Food & Health

Researcher Profile
Professor Roy Taylor
Established that Type 2 diabetes is reversible with a low calorie diet and exercise
BSc Biomedical Genetics (B901)
The study of how DNA is transmitted between generations and decoded

Graduate Profile
Joel
Teach First

Researcher Profile
Professor Sir Doug Turnbull
Researches rare mitochondrial diseases and director of the centre which developed the '3 parent baby' techniques

Integrated Masters Degree available
MSci Biomedical Genetics (B903)
BSc Biochemistry (C700)
The branch of science concerned with the chemical processes that occur within living organisms.

**Graduate Profile**
Andrew
Postgraduate Medicine

**Researcher Profile**
Professor Jeff Pearson

Research into nutrition - found that alginate from foods such as seaweed may help prevent people from absorbing fats.

**Integrated Masters Degree available**
MSci Biochemistry (C701)
BSc Pharmacology (B210)
The design & Study of drugs, how they exert their effect and how the body interacts with the drug

Graduate Profile
Polly Wight
Bioanalyst and Study Coordinator, Arcinova

Researcher Profile
Professor Ann Daly
Awarded the International Society for the Study of Xenobiotics (ISSX) European Scientific Achievement award 2017 for her work in Pharmacogenetics
Vocational Module

Research in Biomedical Science

Business for the Bioscientist

Healthcare Organisation and Practice

Bioethics

Science Communication

Bioinformatics
BSc Sport and Exercise Science (C600)

The understanding of sport and exercise science and how they relate to human performance and health

Researcher Profile
Professor Emma Stevenson

Studies the effects of exercise and nutrition on appetite regulation and metabolism, with specific interest in the role of milk proteins.

Career Development Module is available
BSc Food and Human Nutrition (C600)

Impact of nutrition on health and disease, from a cellular and molecular level to people and populations

Researcher Profile

Dr Thomas Hill

An interest in the impact of vitamin D on health and advanced age disease
BSc Psychology (C800)
The scientific study of people, the mind and behaviour

Psychology work with various institutes on multi-disciplinary research:

Professor Vicki Bruce
Research on face recognition and eye-witness recall
Eye gaze direction and paranoia
Psychology Graduates

I am really looking forward to my placement within the NHS

Holly
Masters in 'Early Intervention in Psychosis'

Our Psychology graduates progress to a wide variety of careers...

from Clinical Psychology to marketing, education or Sports Psychology and many more!

Andrew
Forensic Psychology MSc

Tim
Account manager for advertising agency
Professional Pathways
Professional Pathways

Clinical Psychology

Undergraduate Psychology
Clinical Psychology module, Abnormal Psychology and Psychiatry

Clinical Psychology MSc

Clinical Doctorate
Professional Pathways

Clinical Psychology
- Undergraduate Psychology
  - Clinical Psychology module, Abnormal Psychology and Psychiatry
  - Clinical Psychology MSc
  - Clinical Doctorate

Forensic Psychology
- Forensic Psychology module
  - Forensic Psychology MSc
  - Forensic Doctorate/supervised practice

Psychological Research
- Many modules e.g. research methods, statistics, cognitive neuroscience
  - PhD's in the Institute of Neuroscience
Professional Pathways

Clinical Psychology
- Undergraduate Psychology
  - Clinical Psychology module, Abnormal Psychology and Psychiatry
- Clinical Psychology MSc
- Clinical Doctorate

Forensic Psychology
- Forensic Psychology module
- Forensic Psychology MSc
- Forensic Doctorate/Supervised practice

Psychological Research
- Many modules e.g. research methods, statistics, cognitive neuroscience
- PhD’s in the Institute of Neuroscience

Professional placements also really add value in these pathways!
Food and Human Nutrition (B46D)

The impact of Nutrition on Health and Disease

From the cellular and Molecular Level through to people and populations

Discover the impact of food composition and processing on nutritional value, quality and consumer acceptance
Food and Human Nutrition (B46D)

The impact of Nutrition on Health and Disease

From the cellular and Molecular Level through to people and populations

Discover the impact of food composition and processing on nutritional value, quality and consumer acceptance
Research Projects

Final year dissertation working with world-leading nutrition researchers and major food companies

Enable students to get a real feel for research and be both self-reliant and work as part of a team

*Develop a number of skills in addition to lab based skills:*

- Reading literature and planning experiments
- Criticising data and writing protocols
- Presenting data
Careers in FHN

- Technical brewer
- Animal nutritionist
- Nutritional therapist
- Lecturer
- Food Marketing
- Research Scientist
- Dietitian
- Food Technologist
- Product/process development scientist
**Professor John Mathers**
Currently researching personalised nutrition

**Professor Ashley Adamson**
How can we help parents recognise unhealthy body weight in their children

**Professor Ashley Adamson**
Exploring associations between adult cooking skills and diet in the UK

**Professor John Mathers**
Developing interventions to target health and wellbeing in later life
Medical Science Careers
Pharmacy (B230)

Pharmacists are involved in prescribing and dispensing medicines

There is an increasingly significant role in the diagnosis and management of illness

Develops scientific, communication and technical skills
Pharmacy (B230)

Transfer from Durham to Newcastle

First entry to the course in 2017

Brand new facilities

Quality case-led teaching

4 year (MPharm) Course
After a Pharmacy Degree

MPharm Degree

- Pre-registration training (52 weeks)
  - Assessment
    - Registered Pharmacist
      - Community based
      - Hospital based

- Research Scientist
- Toxicologist
- Lecturer
- Medical Sales Rep
- Product or process development scientist (industry)
Sport and Exercise Science (C600)

The study of sport and exercise in relation to human performance and health

Study key disciplines such as anatomy, physiology, biomechanics, psychology, bioenergetics and nutrition

Develops key practical skills, both in the lab and on the field
Sport and Exercise Science (C600)

- Small class sizes - greater contact with staff
- Career focused options
- Optional placement year
- Practical based
- Multidisciplinary final year
- Brand new state of the art facilities
Careers in SES

Dietitian  
Sports Therapist

Sport Psychologist  
Sports Science Researcher

Performance Analyst  
Health promotion specialist  
Exercise physiologist

Strength and conditioning coach  
Secondary school teacher

Fitness centre manager  
Sports Medicine  
Lecturer
Careers in Sport and Exercise Science

Emma Stevenson

Research on...
- Maximising recovery after exercise with nutrition e.g. milk and beetroot
- Appetite regulation and metabolism

Sunderland Association Football Club
Middlesbrough Football Club

The Professional Golf Association...
and LOTS more!

History
- Graduated with a first class honours in Physical Education and Sport Science, 2002
- Sport and Exercise Nutrition PhD, 2005
- Performance nutritionist with many individuals and clubs
- Consultant sports nutritionist
www.ncl.ac.uk/biomed
@biomedsciNU
/NewcastleBiomedicalSciences
@NCLMedicalSciences
PARTNERS

Provides a supported entry route into Newcastle University.

Receive a conditional offer up to 3 grades lower.

Applicants attend an Academic Summer School before they get their place.
Am I eligible?
Am I eligible?

You must meet ALL of the following:

Meet all UCAS and UKCAT deadlines

Choose Newcastle University as your FIRM choice

Fulfil all selection criteria (UKCAT score, interview)

Predicted grades no more than one grade lower PARTNERS offer

Home Student status
Am I eligible?

You must meet ALL of the following:

- Meet all UCAS and UKCAT deadlines
- Fulfil all selection criteria (UKCAT score, interview)
- Predicted grades no more than one grade lower PARTNERS offer
- Choose Newcastle University as your FIRM choice
- Home Student status
Am I eligible?

You must also meet ONE of these criteria:

- School or college attended for sixth form
- School attended for GCSE’s
- Various home postcodes
- Free school meals, pupil premium funding, discretionary school/college payments linked to financial hardship
- Local authority care for a period of three months or more, within last ten years
- Neither of your parents experienced Higher Education or are in a professional career
Am I eligible?

You must also meet ONE of these criteria:

- School or college attended for sixth form
- School attended for GCSE’s
- Various home postcodes
- Free school meals, pupil premium funding, discretionary school/college payments linked to financial hardship
- Local authority care for a period of three months or more, within last ten years
- Neither of your parents experienced Higher Education or are in a professional career
Partners Summer School

You must complete the Partners Summer school with 100% attendance

Assessment: Dentistry
Partners Summer School

You must complete the Partners Summer school with 100% attendance

Assessment: Dentistry
Applying for PARTNERS Scheme

Check eligibility through our online Eligibility Checker

Include a 'P' in the further details section of your UCAS application for the course at Newcastle University

Complete PARTNERS application form

Ask your teacher to send it off to us with a copy of your UCAS form

www.ncl.ac.uk/schools/partners