

Life Sciences

The Birmingham and Solihull area has a strong and growing life sciences industry with many medical technologies and biopharma companies.

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The industry is tackling big issues such as cancer, dementia, trauma, rare diseases and antimicrobial resistance.

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Employers are particularly looking for:

- An interest in maths, life sciences and technology
- Advanced digital and ICT skills
- Strong reasoning and analytical skills
- Good communication and presentation skills
- Project management skills
- Collaboration, teamwork and interpersonal skills
- Technical and practical skills
- Knowledge of life sciences and clinical research and development
- Skills in quality management, quality assurance and control

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Job roles in life sciences are diverse.
There are many career opportunities
“outside the lab” including roles in:
regulatory affairs, quality, sales, medical
liaison, clinical trials administration, medical
writing, business development, data science,
IT, bio-manufacturing and more.

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Highly skilled people with STEM (science, technology, engineering and maths) qualifications are in demand in this growing industry.

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Technical skills in areas such as engineering, computer science and data analytics are becoming increasingly important in the industry.

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Local employers include:

- Queen Elizabeth Hospital Birmingham
- University of Birmingham
- Kimal (Bromsgrove, medical devices)
- Salts Healthcare Ltd (Birmingham, stoma care)
- The Binding Site Group (Birmingham, immuno-diagnostics)
- Abingdon Health (Birmingham, rapid diagnostic testing)
- IMI Precision Engineering (Birmingham, flow control solutions)

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Genomics, robotics,
digital diagnostics, blockchain
technology, and artificial
intelligence (AI) will create new
industries and new jobs.

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Specialism: **Biotechnology**

Includes:

- drug development
- vaccine development
- diagnostics solutions

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Specialism: **Medical technology**

Device, equipment and systems developed to solve a health problem and improve people's quality of life.

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Specialism: **Digital health**

ICT technologies to manage illnesses and health risks and to promote wellbeing including mobile & digital health applications, wearable health devices, telehealth and telemedicine.

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Bioinformatics - connecting computing, biology and medicine - is a fast-growing area in research and development.

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The Birmingham Health Innovation Campus is due to open in 2023, which will mean even more opportunities to work in this industry as more businesses are drawn to the area.

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**National
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Many start-ups and university
spin-outs are located at
BioHub, Birmingham
Research Park.

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Job roles include:

- Software engineer
- Research associate
- Clinical scientist
- Biomedical scientist
- Biochemist
- Project Manager
- Biologist
- Laboratory technician
- Solutions architect
- Data analyst / statistician

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