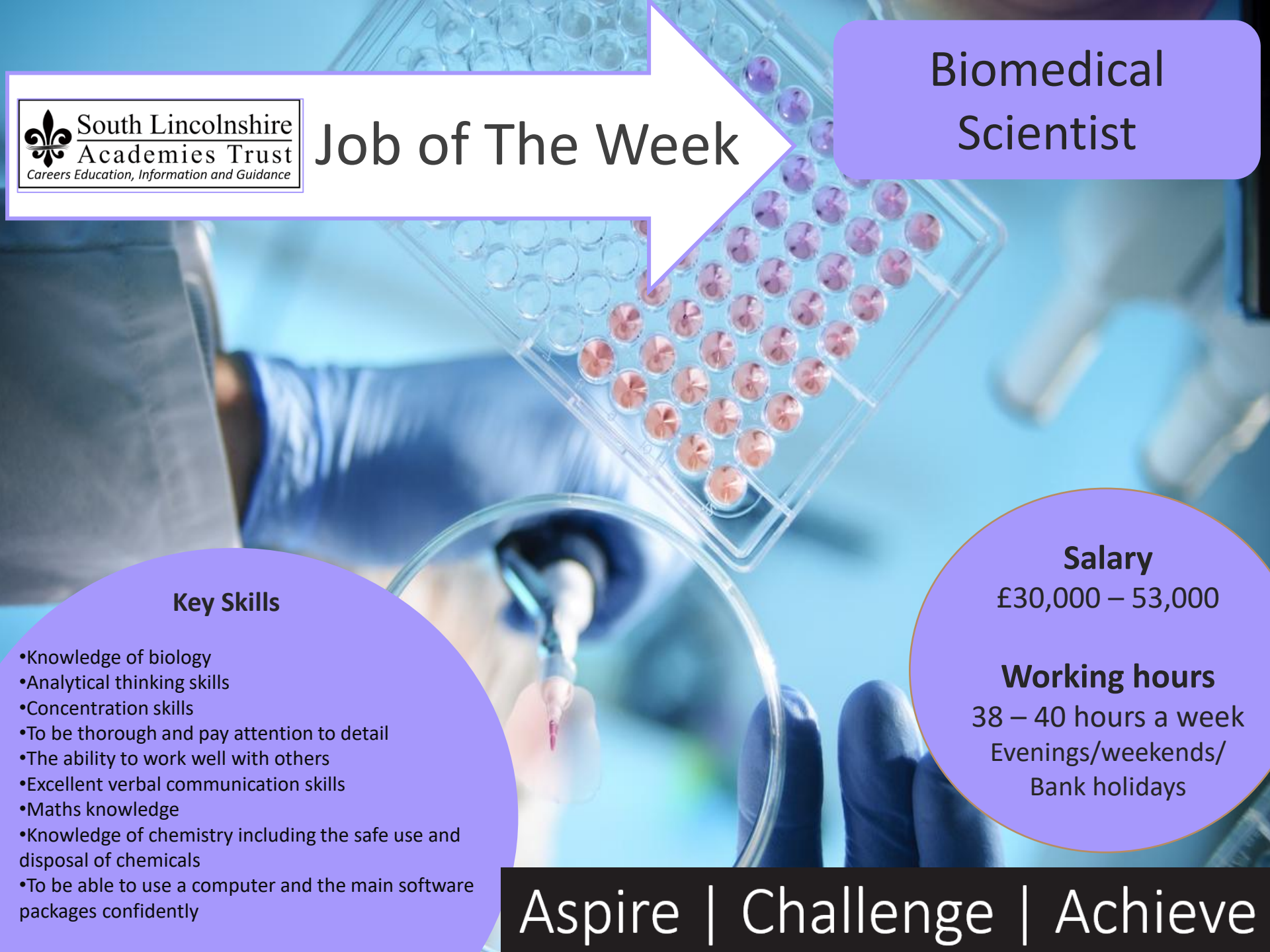
South Lincolnshire Academies Trust
Careers Education, Information and Guidance

Job of The Week

Biomedical Scientist



Key Skills

- Knowledge of biology
- Analytical thinking skills
- Concentration skills
- To be thorough and pay attention to detail
- The ability to work well with others
- Excellent verbal communication skills
- Maths knowledge
- Knowledge of chemistry including the safe use and disposal of chemicals
- To be able to use a computer and the main software packages confidently

Salary
£30,000 – 53,000

Working hours
38 – 40 hours a week
Evenings/weekends/
Bank holidays

Aspire | Challenge | Achieve

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Biomedical Scientist

University

You can study for a biomedical science degree. Your course should be accredited by the Institute of Biomedical Science (IBMS) and approved by the Health and Care Professions Council (HCPC).

Laboratory work experience

To work as a biomedical scientist, you must register with the HCPC. To register you'll need to have completed work experience in an accredited laboratory.

Some degree courses include work placements. If your chosen course does not include accredited work experience, you'll need to find a laboratory placement. You could do this during a sandwich year or after you have finished your degree.

You'll usually need:

•5 GCSEs at grades 9 to 4 (A* to C), or equivalent, including English, maths and science

•3 A levels, or equivalent, including biology and chemistry

Apprenticeship

You could apply to do a Biomedical Scientist Level 6 Degree Apprenticeship, if you're working in the health service or in a research lab facility.

This apprenticeship takes around 3 years to complete.

You'll usually need:

•4 or 5 GCSEs at grades 9 to 4 (A* to C) and A levels, or equivalent, for a degree apprenticeship

Work

You may be able to get into biomedical science as an NHS trainee.

You'll need at least 2 A levels in science subjects or an equivalent qualification, like a Level 3 Diploma in Applied Science.

Places are sponsored by NHS employers and you'll study for an accredited biomedical degree while you work.

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Career Path and Progression

With experience, you could move into areas like:

- specialist research
- training and education
- product development and sales
- people or project management

Day to day tasks

- test for infections and diseases, like hepatitis and diabetes
- analyse tissue samples for abnormalities, for example from cancer screening
- investigate cells and genomes to uncover hereditary conditions
- monitor patients' organ function before and after operations
- carry out blood grouping and matching for transfusion and transplant services
- process and analyse tissue samples from operations and autopsies
- research ways to develop new tests and refine existing ones
- update records with data and test results

Working conditions

You could work in an NHS or private hospital, in a laboratory, at a research facility or at a university.
You may need to wear protective clothing.

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Labour Market Information

In the Careers section of the school website you can find the useful comparison tool the 'Labour Market Information widget'.

Use the widget to compare different job roles in any employment sector or relating specifically to the 'Job of the Week'.

Biological scientists	Natural and social science professionals n.e.c.	Chemical scientists
Weekly Pay **£760**	Weekly Pay **£1,600**	Weekly Pay **£760**
Annual Pay **£39,520**	Annual Pay **£83,200**	Annual Pay **£39,520**
Hours/Week **40h**	Hours/Week **40h**	Hours/Week **42h**
Hourly Pay **£19**	Hourly Pay **£40**	Hourly Pay **£18**
Workforce Change (projected)	**Workforce Change** (projected)	**Workforce Change** (projected)
Growth **9.9%**	Growth **9.9%**	Growth **9.9%**
The workforce is projected to grow by 9.9% over the period to 2035, creating **3,000** jobs.	The workforce is projected to grow by 9.9% over the period to 2035, creating **2,800** jobs.	The workforce is projected to grow by 9.9% over the period to 2035, creating **4,200** jobs.
You might find this job in Scientific research Agriculture, etc Specialised construction Retail trade Health	You might find this job in Scientific research Public admin. & defence Education Coke & refining; Chemicals,etc Computer programming, etc	You might find this job in Employment activities Retail trade Coke & refining; Chemicals,etc Scientific research Specialised construction
More info / Clear card	More info / Clear card	More info / Clear card

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Labour Market Information

Biological scientists

Biological scientists examine and investigate the morphology, structure, and physical characteristics of living organisms, including their inter-relationships, environments and diseases.

Common tasks in this job:

- studies the physical form, structure, composition and function of living organisms
- researches the effects of internal and external environmental factors on the life processes and other functions of living organisms
- observes the structure of communities of organisms in the laboratory and in their natural environment
- advises farmers, medical staff and others, on the nature of field crops, livestock and produce and on the treatment and prevention of disease

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Natural and social science professionals n.e.c.

Job holders in this unit group perform a variety of scientific research and related activities not elsewhere classified in MINOR GROUP 211: Natural and Social Science Professionals.

Common tasks in this job:

- plans, directs and undertakes research into natural phenomena
- provides technical advisory and consulting services
- designs tests and experiments to address research objective and find solutions
- applies models and techniques to medical, industrial, agricultural, military and similar applications

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Chemical scientists

Chemical scientists analyse and research physical aspects of chemical structure and change within substances and develop chemical techniques used in the manufacture or modification of natural substances and processed products.

Common tasks in this job:

- develops experimental procedures, instruments and recording and testing systems
- operates specialised scientific equipment and conducts experiments to identify chemical composition, energy and chemical changes in natural substances and processed materials
- analyses results and experimental data
- tests techniques and processes for reliability under a variety of conditions

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Keep looking...

Use these links to learn more about our job of the week, consider the various pathways leading to the career, what you can be doing now to help yourself and other roles in the industry

Take a look at these short videos for inspiration…

[Biomedical scientist: Ella' and Paul's stories]

[Meet the Biomedical Scientists]

[Biomedical Science Placement Profile - UK Biocentre]

[Day in my life as a Biochemist | Labs, work with me, scientist, research, STEM, chemistry, biology]

Useful Websites

[Become a biomedical scientist]

[Become a biomedical scientist]

[Approved programmes | The HCPC]

[Practitioner Training Programme]

[Certificate of Competence by Equivalence]