



**Level 6** (at end of programme)  
Equivalent to Bachelors degree  
(BEng)



**60 months duration**  
depending on prior learning



**£24,000 maximum funding cap**  
available from Apprenticeship Levy

Targeted for new entrants or  
existing staff following good  
Level 3 qualifications in  
engineering related disciplines

## ATMP Bio/Chemical Engineer Degree Apprenticeship

Involved in process design and manufacture of chemical, biological or science based technology across ATMP industry.

### Occupation Summary

They will apply their knowledge of underlying engineering principles to implement and develop new processes or plant and to support product development; and work autonomously and as part of a wider scientific and engineering team. They will use project management skills to develop and manufacture products on time, on cost and to the right product quality. They will be proactive in identifying and supporting engineering solutions to challenging problems, be able to identify areas for business improvement and propose innovative ideas. Both process and plant roles are critical to efficient manufacturing operations and they will frequently work together and will share a common set of skills that allows them to cover common aspects of their specialist roles.

**Typical job roles may include:** Process Engineer, Process Control Engineer, Process Safety Engineer, Chemical Engineer, Project Engineer, Biochemical Engineer, Plant Engineer, Maintenance Engineer.

### Knowledge:

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- Core engineering principles including mathematics and science.
- Principles of computer aided design and informatics packages.
- Project management procedures & industrial finance.
- Internal and external regulatory environment & the business environment.
- Principles of process and product safety and sustainability relevant to the sector.
- The principles of quality management processes relevant to the sector.

### Skills:

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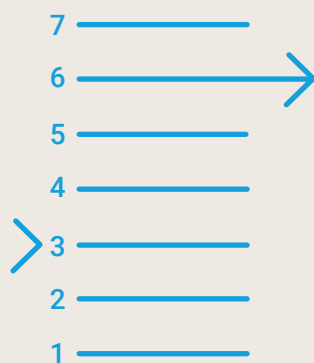
- Prepare for & perform engineering tasks using the appropriate techniques.
- Support the evaluation, submission, planning, installation and commissioning.
- Work autonomously to analyse, interpret and evaluate engineering data.
- Apply CI techniques and support existing manufacturing process.
- Use creative thinking and problem solving to challenge assumptions.
- Plan and prioritise process/plant tasks using project planning tools.

### Behaviours:

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- A safety and quality approach & responsible attitude to mitigate risk.
- Communicate appropriately to a scientific and non-scientific audience.
- Reliable and shows integrity and respect for confidentiality.
- Work autonomously and interact effectively.
- Applies a logical thought process & Handles and responds to change.
- Takes responsibility for professional development as an engineer.

## Levels



Entry | Exit

## Entry requirements

- Typically apprentices will hold Level 3 qualifications providing the appropriate number of UCAS points for entry as defined by individual employers/HE providers and will typically have completed A levels/ B-Tech in at least one science or engineering related subject including maths.
- Apprentices without Level 2 English will need to achieve this level prior to endpoint assessment.
- For those with an education, health and care plan, the English and maths minimum requirement is entry Level 3.

## Progression routes

- At the end of the apprenticeship apprentices will have achieved a BEng (hons) Qualification (Level 6).
- Following successful completion of endpoint assessment the apprentice will operate as a Biochemical or Chemical Engineer on their pathway to becoming Chartered.
- Further apprenticeships and academic learning supporting roles in Engineering and Senior Management are available at Level 7.

## Training providers:

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## Training provider analysis

This is an exciting apprenticeship standard completed by the Life Sciences Employers and approved for delivery in 2018. Training provider analysis across higher education revealed few Universities able to deliver this through blended learning approaches.



**Strathclyde University** currently have extensive experience delivering Engineering apprenticeships and have presented a well rounded blended learning approach suitable for delivery in England.

## Next steps:

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To find out more about this apprenticeship or if you have any questions, email us on [apprenticeshipsinfo@ct.catapult.org.uk](mailto:apprenticeshipsinfo@ct.catapult.org.uk). You can also visit [advancedtherapiesapprenticeships.co.uk](http://advancedtherapiesapprenticeships.co.uk) for more general information.