



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

**CAD/CAM Manufacturing Technician,
Faculty of Engineering and Physical Sciences**



Salary: Grade 6 (£32,296 – £37,999 p.a.)

Reporting to: Graham Brown

Reference: EPSTS1006

Location: Leeds main campus

Closing date: Wednesday 27 November 2024

We are open to discussing flexible working arrangements

CAD/CAM Manufacturing Technician, Faculty of Engineering and Physical Sciences.

Are you looking for a challenging and varied manufacturing role, machining one-off bespoke components in a research and development environment? Do you have experience of CAM programming using fusion or NX software?

Overview of the Role

We are looking for a hands-on manufacturing engineer that can plan, program, and manufacture complex parts to high accuracy, utilising our suite of high spec CNC machines.

Based in the Faculty of Engineering and Physical Sciences Workshop, within the Mechanical Engineering department; you will provide manufacturing support in this busy facility. This primarily involves CNC programming, setting, and operating to manufacture components to high quality specifications. You will work within a small team of manufacturing engineers producing components from 3D models/drawings supplied by research groups.

Main duties and responsibilities

- Using proprietary CAD/CAM (NX, Solidworks, Fusion) software to produce drawings and programme tool paths for multi axis machines Turning, Milling and Wire EDM;
- Generating 3-D CAD Models from design briefs or 2-D drawings;
- Programming, setting up and operating CNC milling, turning and EDM machine tools;
- Troubleshooting, repair and planned maintenance of workshop equipment;
- Assisting with design, provide technical specifications and to construct experimental equipment both in the workshop and laboratory environment;
- Providing time estimates for completion of components or construction of experimental equipment;
- Planning and organising own workload to ensure completion to agreed deadlines;
- Ordering of consumables and tools;



- Operation of Good Workshop Practice, attention to general workshop upkeep and tidiness to include cleaning machines and sweeping floor areas in accordance with local rules;
- Operating in accordance with Health and Safety procedures, hazard, risk, COSHH assessments and local policies, assisting in the development of written procedures and protocols in support of safe practice, and monitoring your own and others' activities to ensure that these are observed;
- Training, assessing competency and ensuring correct and safe usage of varied workshop equipment and facilities by students, staff and visitors, through providing one-to-one training, demonstrations and specialist advice and instructing students during project work;
- Liaising with outside and UOL agencies, equipment suppliers and repairers;
- Providing coaching and mentoring where appropriate to technical staff outside of immediate work area, as directed by the Mechanical Services Manager.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

Qualifications and skills

Essential

- A BTEC/HNC in a mechanical/manufacturing engineering discipline or equivalent experience;
- Extensive experience in a CAD/CAM manufacturing engineering environment;
- The ability to manufacture engineering components to close tolerances;
- The ability to use an engineering drawing to assess the methods of manufacture and be able to suggest alternative methods where appropriate and more cost effective;
- Comprehensive general engineering knowledge in relation to manufacture (speed and feeds, cut depths, tooling etc.);
- Time management skills, with the ability to manage workload, providing accurate deadlines for completion of mechanical manufacturing work;
- The ability to work effectively as part of a team, with a 'hands-on' approach to workloads and the ability to contribute towards the continuous improvement of the workshop environment;



- The ability to keep up to date with the latest developments in mechanical technology, including safety regulations;
- Proven interpersonal skills, with the ability to liaise effectively with staff throughout the School, University and original equipment manufacturers;
- A high level of accuracy and attention to detail;
- The ability to be flexible in a changing environment and an enthusiastic working approach, with the ability to work independently and use your own initiative.

Desirable

- An IOSH General Certificate or other equivalent qualifications;
- Experience of Hurco Winmax mill programming;
- Experience of using Fanuc Wire erosion machines.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23:59** (UK time) on the advertised [closing date](#).

Contact information

To explore the post further or for any queries you may have, please contact:

[Graham Brown](#), Integrated Mechanical Workshop Manager

Tel: +44 (0)113 343 8264

Email: G.Brown@leeds.ac.uk

Additional information

Faculty and School Information

Further information is available on the research and teaching activities of the [Faculty of Engineering & Physical Sciences](#).



A diverse workforce

As an international research-intensive university, we welcome students and staff from all walks of life and from across the world. We foster an inclusive environment where all can flourish and prosper, and we are proud of our strong commitment to student education. Within the Faculty of Engineering and Physical Sciences we are dedicated to diversifying our community and we welcome the unique contributions that individuals can bring, and particularly encourage applications from, but not limited to Black, Asian and ethnically diverse people; people who identify as LGBT+; and people with disabilities. Candidates will always be selected based on merit and ability.

The Faculty of Engineering and Physical Sciences are proud to have been awarded the Athena SWAN [Silver](#) Award from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

Working at Leeds

We are a campus-based community and regular interaction with campus is an expectation of all roles in line with academic and service needs and the requirements of the role. We are also open to discussing flexible working arrangements. To find out more about the benefits of working at the University and what it is like to live and work in the Leeds area visit our [Working at Leeds](#) information page.

Information for disabled candidates

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found under the 'Accessibility' heading on our [How to Apply](#) information page or by getting in touch by [emailing HR via hr@leeds.ac.uk](mailto:hr@leeds.ac.uk).

Criminal Record Information

Rehabilitation of Offenders Act 1974

A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.

Salary Requirements of the Skilled Worker Visa Route

Please note that due to Home Office visa requirements, this role may only be suitable for first-time Skilled Worker visa applicants if they are eligible for salary concessions. For more information, please visit [the Government's Skilled Worker visa page](#).