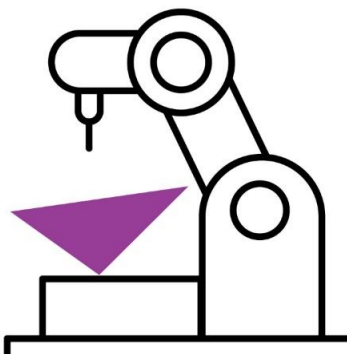
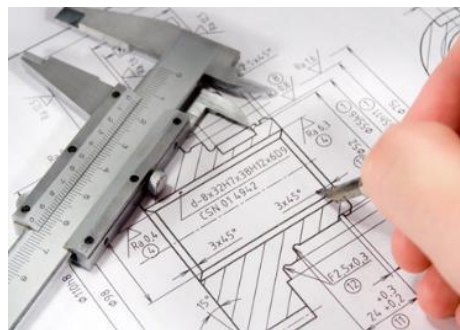


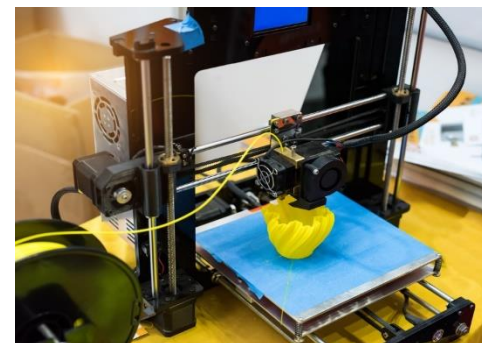
APF



ADVANCED PROTOTYPING FACILITY



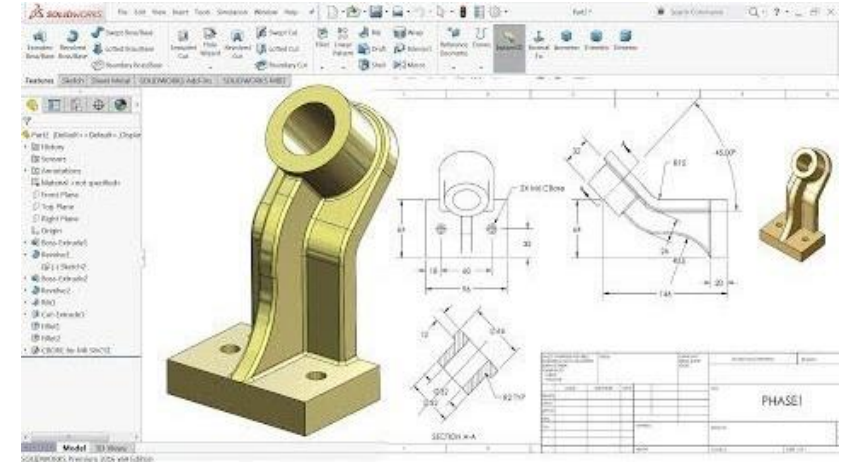
Design



Prototyping

What we are About

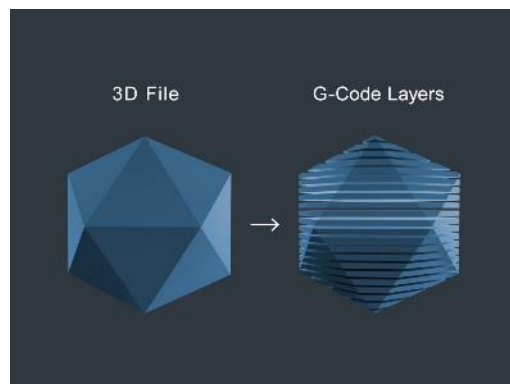
- Digital Design help and support using Solidworks and other CAD packages
- Prototyping using additive manufacture and 3D Printers
- Design for manufacture support
- Testing of materials where required
- Consultancy of designs
- Reverse engineering



How does it work?



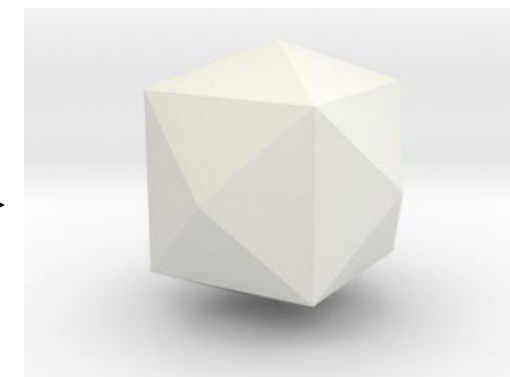
CAD Design



Slicing-G code



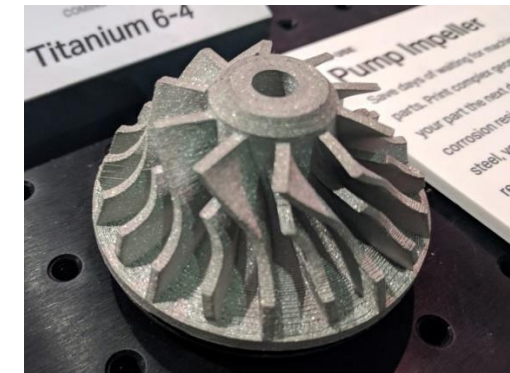
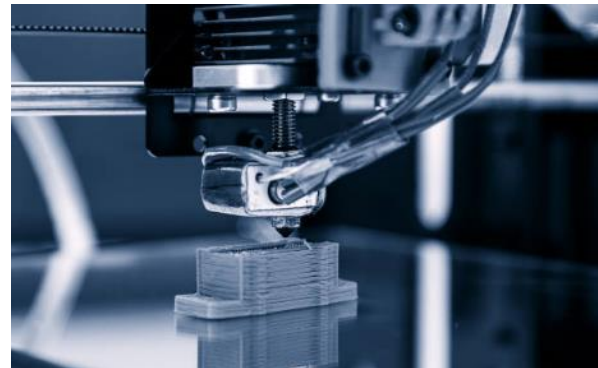
3D Printing



3D object

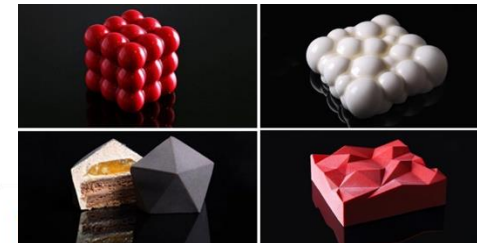
Materials

- Polymers
- Carbon Fibre
- Metals
- Ceramics
- Rubbers



Sectors we can Support

- Medical
- Aerospace, Rail, Automotive
 - Components
- General Engineering
- Arts and Crafts
- Electronics
- Sky is the limit of your imagination

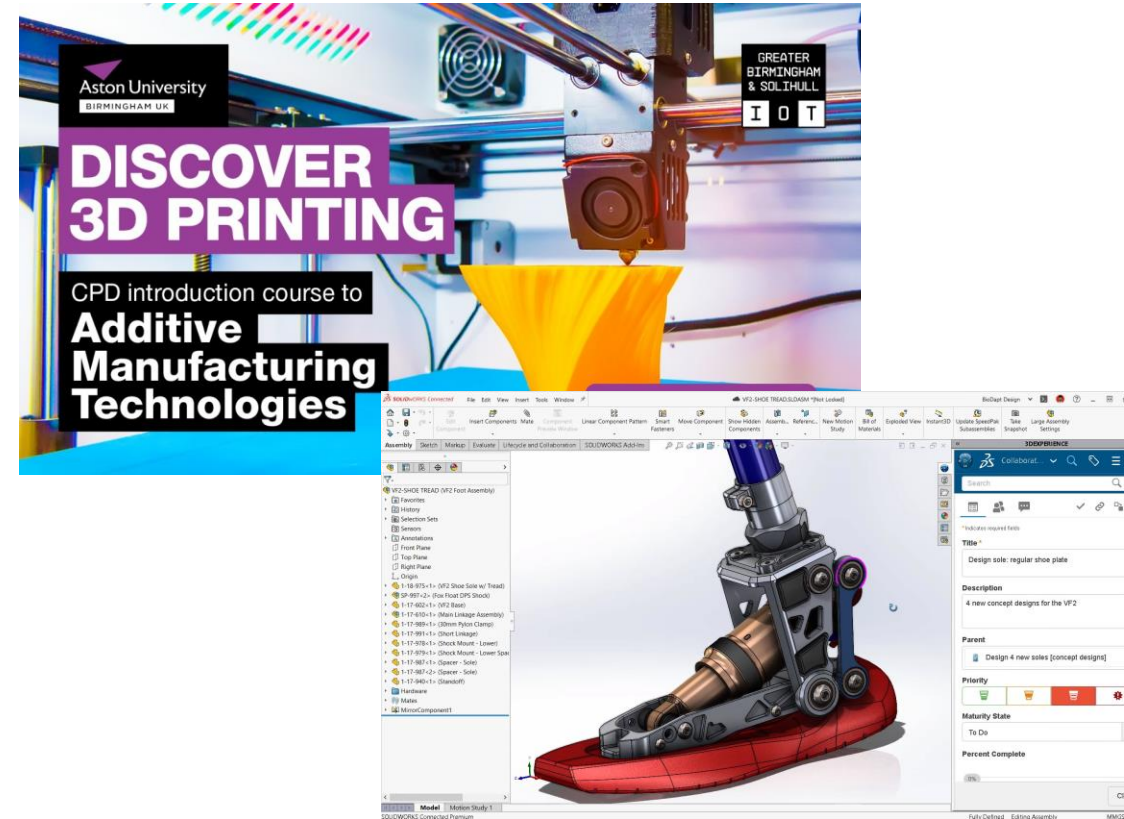


How it's Worked

- Team and Resources
 - 2 x Engineers dedicated, plus 2 technicians
 - 11 x Academics from Mechanical Engineering, Design, and Bio Medical
 - Over 40 3D printers printing capability for different sizes and materials
 - Engineering workshop with CNC lathes and water cutters
- UKSPF through State Aid
 - Available to all Start ups, SME's and larger companies in the Shropshire
 - Running till April 2025 at the moment
 - First output is a minimum of 6 hours and we can move on from there



- Introduction to Additive Manufacturing
- Introduction to Design software personalised to the individual companies
- Introduction to Additive Manufacturing
- On completion you will be able
 - Demonstrate an awareness of AM technologies and materials, their cost, advantages, and limitations.
 - Apply AM knowledge to identify and address the causes of issues and problems in a practical design or manufacture setting
 - Prepare a part or component for production using AM techniques including file preparation, plan any required post-processing.
- Course 1 day



Contact Details

Paul Gretton, Senior Project Manager, Direct: 07961 817395, p.gretton@aston.ac.uk

Gosia Dzierdzikowska, Assistant Project Manager, g.dzierdzikowska@aston.ac.uk

Will Utting, Design & Additive Manufacturing Engineer, Direct: 0121 204 4871, w.utting@aston.ac.uk

Renia Gkountiou, Additive Manufacturing Technician, Direct: 0121 204 4107, r.gkountiou@aston.ac.uk



Website

www.aston-apf.uk



[Instagram](#)



[LinkedIn](#)



[Twitter](#)



Room MB158,
Aston University,
Aston Triangle,
Birmingham, B4 7ET, UK



apf@aston.ac.uk

Thank You Questions

Points from Summative Assessment

Economic Impact in the Next Two Years

- **Employment:** Potential estimated additional total direct and indirect employment impact for the GBSLEP area of the APF project = 62 Jobs Created
- **GVA Impact of Additional Employment:** The anticipated jobs that will be created as a result of the APF project will have the potential to generate an additional £4.35 million of GVA per annum for the local economy.
- **RD&I Spend:** It is anticipated that businesses supported through the APF project have the potential to invest £2.30 million (total for all businesses) in RD&I as a result of their involvement with the project in the next two years.
- **Turnover:** The potential increase in business turnover in the next two years of the businesses supported (total for all businesses) as a result of their involvement with the APF project is estimated to be circa £2.30 million per annum.