

SUMMER PLACEMENTS - 2020



Ormskirk, West Lancashire

£275 per week



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We have several Summer student placements working on short term projects within R&D at our Lathom site. These opportunities would be ideal for students with a passion for technology who are studying for or about to begin a degree in a science or engineering discipline or who are interested in patents or information resource/library management. Training will be provided where necessary. Placements will be for a minimum period of 8 weeks, commencing in summer 2020, however this may be extended by mutual agreement.

The Placements:

- A. Coating material evaluation:** Depositing films by sputter deposition using lab equipment and characterising the properties including mechanical and chemical durability.
- B. Wet Chemistry:** Prepare and characterise small scale coatings using bar coating and spin coating. Evaluate the effect of deposition conditions on coating properties.
- C. Refractories:** Glass fault and refractory materials assessment. Will require sample preparation and a variety of tests carrying out within our team and collation / interpretation of tests carried out elsewhere.
- D. Paper assessment:** Applying a variety of tests to different papers used to interleave glass parts during transport and storage. Includes contact angle measurement in Lathom and liaison with other NSG sites.
- E. Float & Rolled Glass Technology:** Carbon capture research. Research and evaluation of chemical processes for the capturing of carbon dioxide from the waste gases of our furnace operations, to assist with our Group decarbonisation strategy.
- F. Manufacturing Information System:** Development of new software functionality and features using a variety of tools, primarily focussing on the application of data analytics and artificial intelligence technologies
- G. Robotic measurement system:** Industrial robot movement project using Inertial-Measurement-Units (IMU) for tracking and will involve researching commercial and open source IMUs leading to prototyping a low-cost solution to measure the motion of a robot head.
- H. Electronics:** The project will focus on re-design of one or more of the electronic boards used in the Company's in-house developed float glass scanner
- I. Patents:** A science or engineering student with an interest in patents to help undertake a patent portfolio review in the automotive area. This will involve interaction with other departments.
- J. Information Resource Centre:** Data entry in Library Management Systems; Library stock review and updating; booking loans and returns and archive maintenance; searching of archive material.
- K. Analysis:** A science student with an interest in analysis of material composition and surfaces to undertake a project to produce a database of key analytical data associated with NSG products.
- L. Electrical Engineering:** Carry out research and apply systems for small motion control systems involving motor controls, electrical power and control.
- M. Manufacturing:** Based in an R&D prototyping facility where new automotive products are being developed and working with process operators, technologists and engineers. The project will involve producing and assessing new products against stringent specification.
- N. Automotive Glazing Development:** Manufacture and testing of new automotive glazing products and prototypes. Hands-on role, integrated with ongoing projects, using facilities and test equipment on site. Require a student who can learn quickly, act independently, and has an eye for detail and quality.

Benefits:

- Monday – Friday, 8.30 am – 5.00 pm with a one hour lunch
- Holiday entitlement – 2 days per month
- On site Car Parking and Restaurant
- On site fitness activities and events, yoga, football, Pilates, table tennis, golf society

A full UK driving licence and car ownership would be an advantage due to limited public transport to the site.

Please send your CV and covering letter to RecruitmentVacanciesUK@pl.nsg.com and quote reference **PTML-T20-01 followed by the corresponding letter(s) for the placement(s) you are interested in.**
Closing date 22nd March 2020.