

SUMMER PLACEMENTS - 2023



Ormskirk, West Lancashire



£300 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. Training will be provided where necessary. Placements will be for a minimum period of 8 weeks, commencing in summer 2023, however this may be extended by mutual agreement.

The Placements:

A. Flat Glass Technology (#1): Using a mathematical model to predict glass colour changes in a furnace to minimise change times. There will be the opportunity to make the model more user friendly so it can be used outside the team. Other tasks will involve using commercial CFD code to assess aspects of electric heating in a glass furnace.

B. Flat Glass Technology (#2): Supporting NSG's decarbonisation projects by testing the effect of sodium vapour on different refractory materials used in the construction of a float line and helping to develop a test to quantify the amount of sodium vapourised from melts of differing glass making raw materials.

C. Material Properties (#1): Undertake a study involving non-linear Weibull statistics, in relation to glass strength, there is a need for a programmer to write Python code to wrap around existing Python routines to enable looping parameter inputs and outputs without repeated user intervention.

D. Material Properties (#2): Our Automotive glass business, needs to understand the effect of contaminants of the molten salts used to chemically strengthen glass. The placement would be biased to experimental work, looking to add contaminants to a small salt bath and examining the effect on the chemical strengthening of the glass.

E. Shaping Team: Work closely with our glass shaping department on a variety of R&D projects. You will get exposure to automotive tooling design techniques, glass stress measurement, glass heating processes and complex data analysis. A hands-on, technical role, supporting the team with real, innovative project work.

F. Intellectual Property Group: An opportunity for a law or STEM student to work with the Intellectual Property Department. The student will become familiar with the legal processes required for patenting inventions, especially in the USA and Germany, supporting members of the IP team to deliver internal procedures to progress patent applications to grant.

G. On-Line Coatings: Investigation of different methods to determine a "figure of merit" for a transparent conducting oxide coatings on glass. The figure of merit will be used to determine the optimum trade-off between transparency and conductivity.

H. Laminated Products: Investigation of functional and tinted laminated products. Hands-on role, integrated with ongoing projects, using facilities and test/measurement equipment on site. Require a student with a science/engineering background who can learn quickly, act independently, and has an eye for detail.

I. Manufacturing Information System: The placement will involve the development and testing of new software functionality and features using a variety of programming tools, with a primary focus on supporting web-based applications used day-to-day by manufacturing sites around the world.

Benefits:

1. Monday – Friday, 8.30 am – 5.00 pm with a one hour lunch
2. Holiday entitlement – 2 days per month
3. On site Car Parking and Restaurant

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-T23-03 followed by the corresponding letter(s) for the placement(s) you are interested in. Closing date 12th May 2023.**