

S C U D E R I A



Undergraduate Internship Programme

Mechanical and Model Design

Enjoy using CAD to produce unique designs?

Have an interest in material technology?

Aerodynamic Development

Passionate for Aerodynamics?

Creative?

Excited to see your designs on the race car?

Aero Systems

Love to code?

Want to write software to improve F1 systems?

CFD Methodology

Ready to improve CFD processes and data quality?

Familiar with Linux and CFD code?

Scuderia AlphaTauri careers page: <https://www.scuderiaalphatauri.com/en/f1-jobs/>

Competitive Pay, Company Gym, 25 Days Holiday, Unlimited Red Bull!

The Role:

Scuderia AlphaTauri is looking for innovative and academically excellent students who share our passion for making the race car go faster to join our Aerodynamics department in Oxfordshire, UK. During the 13-month Undergraduate Internship, you will be trained to use our state-of-the-art systems and regardless of your role, will be directly involved in the performance of the current race car through development in the Wind Tunnel. You will be working as an integral part of a team, in a friendly and relaxed environment that favours creativity and inspirational design.

The first few months will be spent learning our tools and methods while you are integrated into a development team, where you will then spend your entire time with us. Your progression from that point will only be limited by your capabilities and endeavour.

What you will do:

Aerodynamic Development

- Analysis of Computational Fluid Dynamic and Wind Tunnel simulations;
- Deliver concise and insightful reports to colleagues, driving development direction;
- Produce precise surfaces in CAD;
- Ensure thorough and experimentally sound test plans are delivered to those in the Wind Tunnel.

Aero Systems

- Create clean and well-documented code in languages such as C#, Python and Matlab;
- Enhance our existing software and hardware used daily by Aerodynamicists;
- Adapt the department's tools to evolving and challenging demands.

Mechanical and Model Design

- Optimise component designs around their performance under load;
- Complete FEA simulations on components tested in the Wind Tunnel;
- Take on larger scale design projects as part of a small team.

CFD Methodology

- Improve the efficiency of the CFD throughput according to the target assigned;
- CFD code programming;
- CFD software benchmark;
- Activities to improve CFD correlation with WT and track;
- Support users with the CFD tools for Aerodynamic development.

What you need:

- Be at least 1 year into your undergraduate degree, and to be continuing your studies beyond the end of the Internship;
- Working towards a relevant technical degree, such as AeroSpace, MechEng, CompSci etc.;
- On track for a 1st or high 2:1;
- Focused on achieving excellence within a fast-paced team environment;
- Capability of working to deadlines.

In our dynamic engineering environment, you'll need to be self-motivated, able to work to high levels of accuracy with attention to detail, work to tight deadlines and have excellent communication and organisational skills. Along with these responsibilities, we expect you'll be prepared to be flexible in your approach to work and to go the extra mile when required. The application window opens on 20th September and runs until 1st November.

If you can, be sure to join one of our online webinars that will be delivered on a few separate days in October. Sign-up links and instructions will be provided at a later date. By attending this event, you will find out much more about what exciting opportunities Scuderia AlphaTauri has to offer over the course of the placement year, more specifics about the type of work you'd be doing, and some application hints and tips.