

# Student-Assistant Smart Optics

## JOB DESCRIPTION

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We are looking for an energetic, motivated, result-driven, practical team player to assist the N4CI team at DCSC. The smart optics and opto-mechatronics group is an exciting and challenging team where you are mainly expected to actively participate in development and problem-solving of optical systems. DCSC has two optics labs which focusses on the development of super resolution set-ups, equipped with several high power laser and adaptive optics.

More specifically this person will be responsible for:

- Supporting the scientific staff with the ongoing development of the smart optics and opto-mechatronics;
- Developing the hardware and/or software for optical instrumentation;
- Assisting in the optical courses and practicals;
- Assisting the continuity of hardware and software for the operation of the optical systems;
- Assisting the maintenance and daily operations in the optical labs.

## REQUIREMENTS

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We seek applicants with the following qualifications:

- Experience with developing microscopy or other optical instruments, specifically prototyping on optical breadboards;
- Experience with alignment procedures for optical systems;
- Capacity to conceptually understanding the instrumentation that requires hardware and software development;
- A background in software engineering, physics or other exact science. Applications are welcomed from applicants with a BSc or MSc degree;
- Knowledge of Python and/or C++;
- A passion for working and tinkering in and around the optic labs;

In addition, the following qualifications would be beneficial:

- Experience with adaptive optics;
- Aptitude for understanding scientific concepts;
- Experience with 3D design and prototyping;
- Good communication skills in English;

This position has an amount of 16-24 working hours per week (0,6 fte) through FlexDelft, for the period August-October 2021. Extension is possible.

## ADDITIONAL INFORMATION

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For more information about this position, please contact Dr. Carlas Smith, [c.s.smith@tudelft.nl](mailto:c.s.smith@tudelft.nl) or Erica de Jong-Pronk, [e.j.dejong@tudelft.nl](mailto:e.j.dejong@tudelft.nl).

To apply, please submit the following a detailed curriculum vitae and a separate motivation letter, and send it to [HR-DCSC-3ME@tudelft.nl](mailto:HR-DCSC-3ME@tudelft.nl).

This position will be open until a suitable candidate is found.