# Optics & Hardware Engineer

Optics x Electronics x Code | Full-time or Part-time | gospace.tech

GOSPACE LABS started as a spin-off from the European Space Agency (ESA) ecosystem. Today, we leverage space-grade expertise in miniaturization, electronics, and IoT to solve real-world environmental challenges - operating in 50 countries and growing by more than 100% in 18 months. Our in-house mechanical lab, hardware development room, and Meratch spectroscopy lab are where ideas become instruments, deployed in real environments and recognized globally: Deloitte Fast 50 and EU CINEA contract for the FLOPRES flash flood prevention project.

## MANDATE OF THE ROLE

Own your stack from concept to first light - optical simulation, optomechanical CAD, electronics design, and prototyping cycles that need to move fast.

## WHAT YOU'LL DO

- Design PCBs from schematic to manufacturable board (Altium Designer).
- Perform ZEMAX ray-trace and tolerance analysis on active optical systems.
- Design and iterate optomechanical CAD (Fusion 360 / Rhino / OpenSCAD).
- Write Python for instrument control, numerical analysis, and data pipelines.
- Prototyping with 3D print.
- Collaborate with the lab team on integration sprints; communicate slip dates early.

### Work Arrangement

- Bratislava in-person min. 1 day/week (more during integration sprints).
- Alternative primary base: Zilina or Brno with home-office days built in.
- Part-time or full-time - same hourly rate, no penalty for part-time.

## WHAT YOU'VE GOT

### Knowledge & Technical Depth

- **Education:** PhD level, or Master's + minimum 4 years hands-on experience
- **Electronics design:** Pro level - schematic to manufacturable PCB
- **PCB design & manufacturing:** Pro level (Altium Designer)
- **Optics / applied photonics:** Intermediate or above
- **Physics (experimental/applied):** Solid foundation
- **Python:** Numerical, instrument control, data pipelines - provide repo links
- **Optical simulation:** ZEMAX OpticStudio or equivalent - provide examples

### Complementary Skills (Intermediate)

- Mechanical CAD: Fusion 360, Rhino, or OpenSCAD
- 3D printing: design for print, not just file submission

### Self-Management & Impact

- High sense of self-management - we run by output, not chair-time
- Proactive communication - you escalate delays early, owning the timeline
- Direct ownership from simulation to physical prototype

### Complexity & Scope

- Multi-disciplinary projects bridging optics, electronics, and software
- Breaking complex problems into milestones and delivering against them

## WHAT WE OFFER

💰 Starting salary from €1,900/month gross, negotiable

🥗 Meal contribution 6.50 EUR/day

💪 In-office personal trainer 2x/week

🍎 Healthy office snacks

🤖 AI trainings + personal Claude AI account

⏱️ Flexible work arrangement (upon agreement)

🏠 Home office option (role & team dependent)

🏃 Multisport card

🌍 International exposure & professional growth

🌱 Culture: Agility | Humor | Integrity | Proactivity | Innovation

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**Send a 1-page CV + links to two examples of your past work: schematic, CAD, Python repo, ZEMAX file, or paper.**

**Email: hr@gospace.tech | Subject line: OPTICS-ENG - your surname |**
**Ready to build instruments that matter? Let's meet!**