



Senbiosys
Microcity, Rue de la Pierre-à-Mazel 39
2000 Neuchâtel

Optical Module Design Engineer

Contact: recruitment@senbiosys.com

The most important trend in consumer electronics today is the need for non-invasive vital signs monitoring. PPG (photoplethysmography) resides at the center of this trend as the key technology allowing non-invasive monitoring of vital signs such as the heart rate, blood oxygen saturation, respiration rate, and arterial blood pressure.

Senbiosys has developed miniaturized PPG modules featuring high signal fidelity and extremely low power consumption. These features make our modules strong candidates for changing the wearable sector's approach to PPG and particularly the fast-growing hearable market. These modules are currently under test and we plan to commercialize them this year.

We are looking for an experienced and motivated **Optical Module Design Engineer** to join our team. In this position, as a key member of the company's engineering organization, you will be responsible for designing the company's future PPG sensors and so expanding its unique selling propositions.

Your mission

- Create and analyze optical module designs for new PPG sensors products.
- Collaborate with the operations and sales team to optimize key performance metrics such as: manufacturability and cost.
- Interface with the system and qualification engineers to complete systems modeling, analysis, and methods of performance verification/qualification.

Your profile

- Degree in physics or opto-engineering. A PhD in optoelectronics is a plus.
- Experience in a similar role designing multi-function optical modules.
- Proficiency with Optical Design Software and methods of optical design & analysis (ideally TracePro).
- Strong communication skills.
- Excellent organizational and project management skills.
- Good English proficiency. French or German is a plus.
- European citizenship or work permit in Switzerland.

Additional preferred qualification

- Experience and knowledge on packaging and assembly of optoelectronic components.
- Experience with CAD software (ideally Fusion360 or FreeCad).
- Experience working with PPG sensors or systems.

What you can expect

- Employee-center and flexible working environment.
- Competitive salary and stock option plan participation.