

# Joint Research Engineer Position at MachVis & ONT Labs in NUST-SEECs

**Job Title: Research Engineer**

**Job Category: R&D**

## Job Description

This is a position, available in the Optical Network & Technologies Lab, SEECs, for the project on optical network simulation based on the standards of Telecom Infra Project (TIP).

## Key role and responsibilities

As an engineer/scientist, the job requires the design and implementation of the following tasks.

- Plan the use of TIP's software solution, GNPY in production environments.
- Design and Implement the system as a web based solution.
- Conduct research on industry requirements; operators, vendors, researchers
- Based on industry feedback, implement functions and features to enhance the tools utility, usability and correctness.

## Required Skills & Qualification

- Bachelors in CS/SE/EE
- Good knowledge of concepts and practices of software design, debugging, testing, integration and documentation
- Experience with concepts of Object Oriented Programming (OOP) and designing Software Development Kits (SDKs) for private use.
- Strong critical thinking abilities and problem-solving skills
- Good team player and excellent interpersonal and communication skills

## Preferred Skills

- Experience with Microservice Architectures and their implementation on Cloud Providers.
- Knowledge of JavaScript (Browser), Node.js, and Python.
- Proven experience with multiple technologies; JavaScript, TypeScript, HTML, CSS, SCSS, and frameworks; Angular, React.
- Familiarity with creating services as specific use servers in Python (Flask) and Node.js.
- Knowledge of working with Map APIs i.e. Google Maps, Mapbox etc.
- Experience with Deployments on Cloud Providers i.e. GCP, AWS, Azure.
- Ability to learn new languages and concepts quickly

## How to apply

In order to apply, please send your detailed CV to [ont@seecs.edu.pk](mailto:ont@seecs.edu.pk)

**Deadline:** Early applications are encouraged. Positions are open until filled.