2 PhD-positions within micro- and nanotechnology at NTNU - Announcement

The Rector of NTNU has allocated 2 PhD-positions to the area of micro- and nanotechnology, with one year of duty work at NTNU NanoLab. Permanent scientific staff at NTNU are hereby invited to submit research proposals describing how these positions can be used successfully to reach the goals of NTNU. The proposals will be evaluated according to the following criteria:

- Proposals must require significant use of the advanced infrastructure within NTNU NanoLab for fabrication and characterization. This is a prerequisite for a successful application and must be presented clearly with details regarding the NanoLab equipment and processes that will be used.
    - For more complex process flows, diagrams of process steps are helpful.
    - Information on tools is available online at NorFab and LIMS. Applicants are encouraged to reach out to NanoLab staff (nanolab@ntnu.no) to discuss the viability of their process or organize a tour of the cleanroom.
- Proposals that align with the current need of NanoLab duty worker allocation and new investments will be prioritized. For 2026, the following areas for process development and competence building are needed:
    - AFM (strongly desired)
    - Nanofrazor (strongly desired) – especially for advanced lithography such as nanocontacting, lithography on sensitive 2D materials, point doping, grayscale lithography, etc.
    - S(T)EM (desired)
- The proposed projects must have the potential to yield high-level publications and serve as a basis for a research program or innovation that will attract substantial external funding or investment in the near term. The applicant should clearly identify prioritized research areas according to "Langtidsplanen for forskning og høyere utdanning 2023 – 2032" and any EU funding schemes relevant to their research.
    - The proposals must identify how the successful applicant plans to obtain subsequent grant funding to further their research proposal as a result of the PhD position. Alternatively, for innovation projects, the applicants should describe the business case and how further funding will be obtained to bring the product to market.
- Proposals addressing topics that require significant interaction between several scientific groups at NTNU will be given particular attention.
- Supported projects will be evaluated according to the aims and measures of success listed in the application following completion.

The research proposals must be registered electronically by 23.59 Monday, March 23rd, 2026
https://s.ntnu.no/nanophd-2026

The project description must be uploaded in the electronic application form using the required form.

Questions regarding the announcement process may be sent to hanna.gautun@ntnu.no.