

April 2024

# Newsletter



# NanoSafety

*(Nano)particle exposure levels and characterization, toxicity mechanisms, health effects, and knowledge transfer*



About



Research team



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Safety database

## NanoSafety project webpage

The NanoSafety2 project has established a webpage where you can explore recent news, find information about the business and academic partners, the research team, dissemination efforts, and the latest project publications. Check out the webpage at [this link](#).

## NanoSafety in the media

[3dp.se](#) | [dagensteknik.se](#) | [orebronyheter.com](#)

## NanoSafety in **Allt om arbetsmiljö**

Lena Andersson, coordinator of sub-project 1 (**Exposure**), recently discussed the NanoSafety2 project in an interview with "Allt om arbetsmiljö". You can read the full interview (in Swedish) at [this link](#).

## Vill se gränsvärde för nanopartiklar

*På vilket sätt påverkar partiklar från 3d-printning människors hälsa? Det ska forskare från olika discipliner ta reda på i ett gemensamt projekt på Örebro universitet.*



**Lena Andersson**, yrkeshygieniker och docent. Arbets- och miljömedicin, Örebro.

# SIEMENS ENERGY

## Meet one NanoSafety business partner: **Siemens Energy AB**

Siemens Energy is an energy company formed by the spin-off of the former Gas and Power division of Siemens Group. Siemens Energy AB is a pioneer in additive manufacturing (AM) with one of the largest metal AM printer fleets in the world, and uses the technology for rapid prototyping, repair, and manufacturing as well as providing spare parts. Siemens Energy AB are now rapidly increasing the manufacturing of additive parts at its Finspång facility, and through NanoSafety2 project will gain valuable insights into the exposure of (nano)particles and what mitigations are required to ensure the wellbeing of their employees.

## Meet NanoSafety team: **Alexander Hedbrant**

I grew up in Kalmar, studied biomedicine there, then pursued my PhD in Karlstad, focusing on the macrophage's role in cancer. Afterward, I joined Örebro University's iRiSC research center in 2015, where my focus shifted to studying inflammation from particle exposure in workplaces. As coordinator of sub-project 3 (**Health**), I look forward to exploring how exhaled breath can be used as a biological sample to find health effects of exposure, both in NanoSafety2 and other studies. **Fun facts** about me: I am a twin, and I also have twin kids. I have some Swedish championship medals in Judo. I practice arm-wrestling.



**Alexander Hedbrant**