

## NYE SILICATYPER I BETONG

Vi har i mange år samarbeidet tett med Elkem om bruken av micro silica (MS) i betong. MS brukes nær sagt alltid, når det skal bygges krevende konstruksjoner som bruer, høyhus, havneanlegg osv.

**We have a couple of ideas that we want to propose to students, hoping that they pick one (or more) of them. The projects will mainly involve the use of silica fume or other amorphous silicon dioxides in concrete.**

- First project aims to test a new amorphous SiO<sub>2</sub> and see the impact on the milling on their performance in concrete. This SiO<sub>2</sub> is produced as part of an innovative green technology that aims to produce silica, alumina, and calcium carbonate with no waste at all and no CO<sub>2</sub> emission (as all will be captured in the process).
- The second potential project will be testing and investigating different grades of silica fume in concrete, in which the BET will vary, resulting in different dispersibility in concrete mixes, different workability and strength.

We can help with some of the characterizations in these projects, as well as any technical support for the students.

We would like to have a meeting with you before the proposing period, to discuss more about how we can do that and what the students look for.

The research methodology and the experimental design will be determined later in cooperation between Elkem and UiA.



Se denne og flere oppgaveforslag på <https://rtt.uia.no/bsc-msc-prosjekter/>