We search 3-5 A or B candidate Master students, who are motivated and wish to do curiosity driven project or thesis research in our laboratory: www.ntnu.edu/physics/complexmaterials/softcomplex

Active researchers in our NTNU lab. 2015-16:
• Prof. Jon Otto Fossum
• Adjunct Prof. Kenneth D. Knudsen, is full-time Senior Researcher at IFE
• Adjunct Prof. Paul Dommersnes
• Ph.D candidate Leander Michels
• Ph.D candidate Alexander Mikkelsen
• Ph.D candidate Everton Carvalho dos Santos
• Research Technician Ole Tore Buset, (helps us in experimental activities)
• Masterstudents
Building of functionalized capsules by means of electric fields

Swimming particles

Capturing CO$_2$ in nanoclay particles

$V \sim 0.1 \text{ mm/sec}$

$\text{x-ray intensity}$

$\text{CO}_2 + \text{Clay}$

$\text{Dry clay}$
The following recent scientific articles form basis for the projects that we wish to continue:

http://www.nature.com/srep/2015/150305/srep08775/full/srep08775.html

http://www.nature.com/ncomms/2013/130628/ncomms3066/full/ncomms3066.html

http://www.nature.com/ncomms/2014/140523/ncomms4945/full/ncomms4945.html

http://www.nature.com/srep/2015/150305/srep08775/full/srep08775.html
In some of the experiments, there are possibilities for international collaborations, for example in performing synchrotron X-ray investigations either in France, Brazil, South-Korea, or Sweden, or neutron scattering at IFE, Kjeller or sometimes at international facilities throughout the world.

In addition to accepting student to work in our local laboratory at NTNU, we are also looking for students who may wish to work during their Master thesis in the labs of the groups of our established collaborations in Brazil (Rio de Janeiro, Sao Paulo or Recife), in Denmark (Copenhagen), in Sweden (Lund University), in the Netherlands (Amsterdam), in France (Paris or Rennes), in Cuba (Havana), or in Norway (IFE-Kjeller).