EDISON

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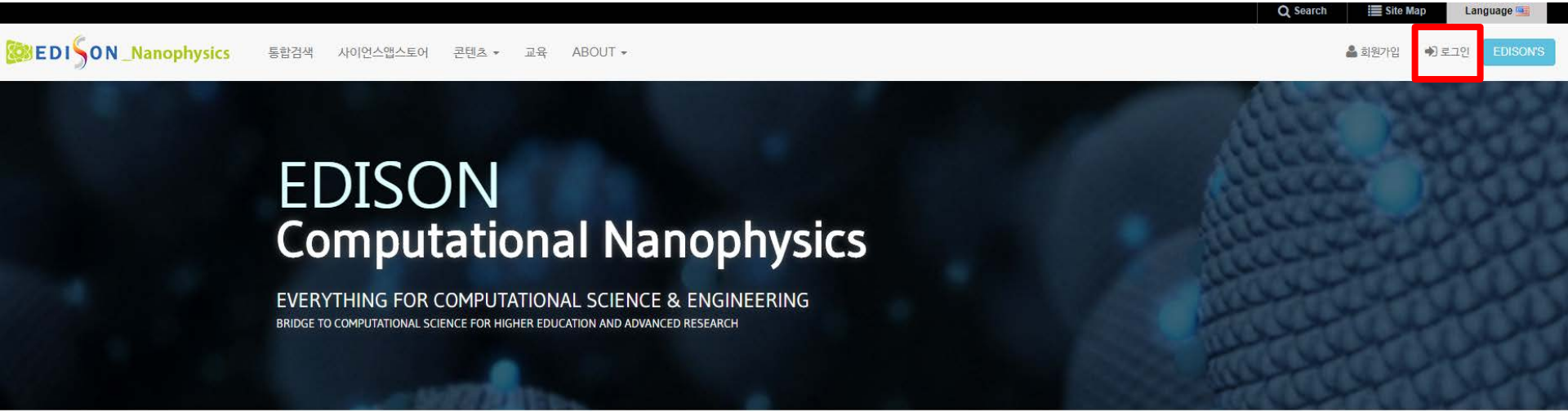
NEGF

- Nonequilibrium Green's Function (NEGF)
  - Standard quantum transport simulation technique
  - Unfortunately, due to the time limitation, the NEGF has not been discussed in the lecture.
- Instead, a short exercise is prepared.

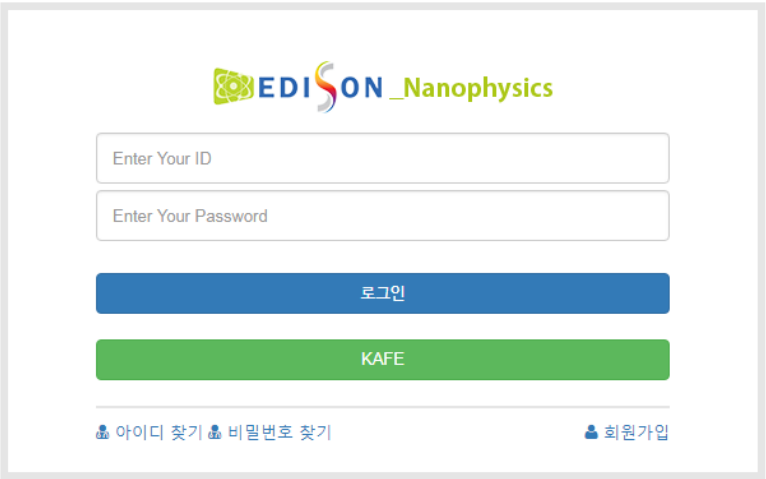
Visit EDISON Nanophysics

- Type “nano.edison.re.kr”
  - You may see it.
  - Then, click “Login”



Login page

- What is your (pre-defined) ID and password?
  - Your ID: c0835(8digit student id)
  - Your password: Same with your ID
  - Ex) If the student ID is 20132013, then the IS is c0835**20132013**.



After login…

- You will set the following page.
  - Click “RUN”

Name of your simulation

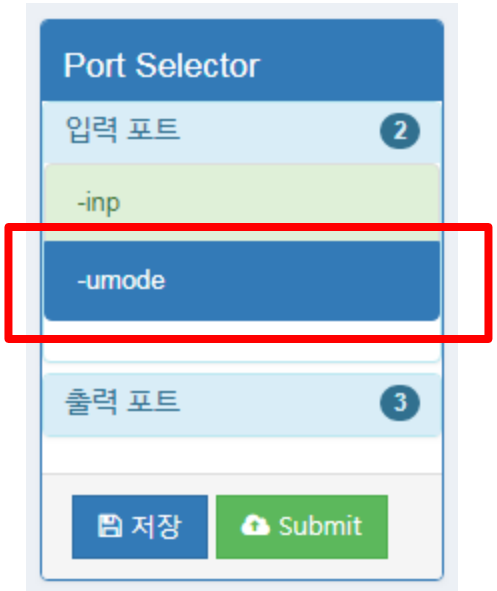
- Type any name.
  - Then, click “Create”

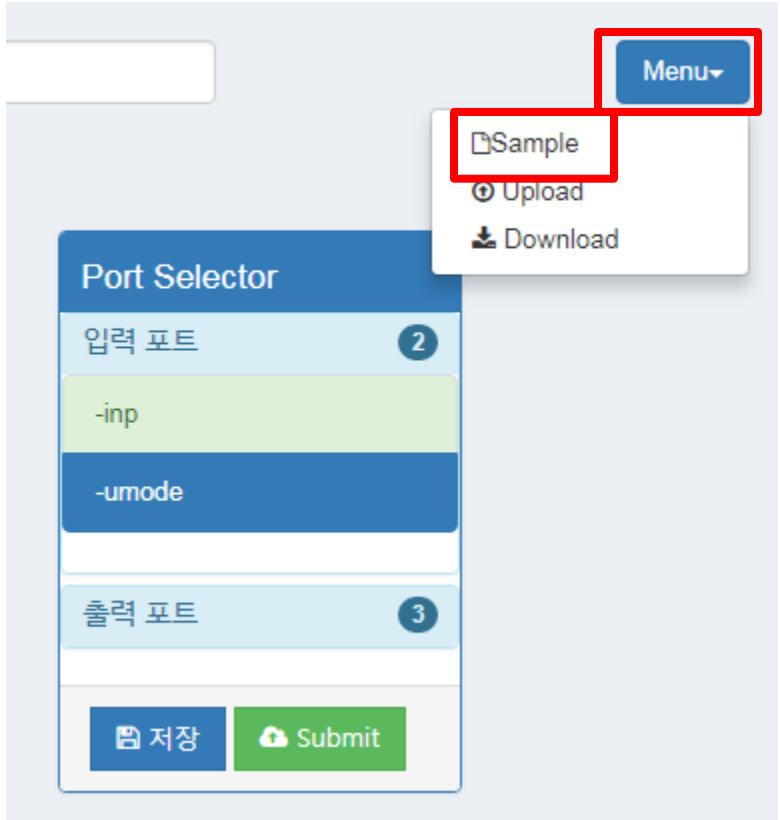
You have a long list…

- But, first try the sample structure.
  - Click “Sample”

One more step

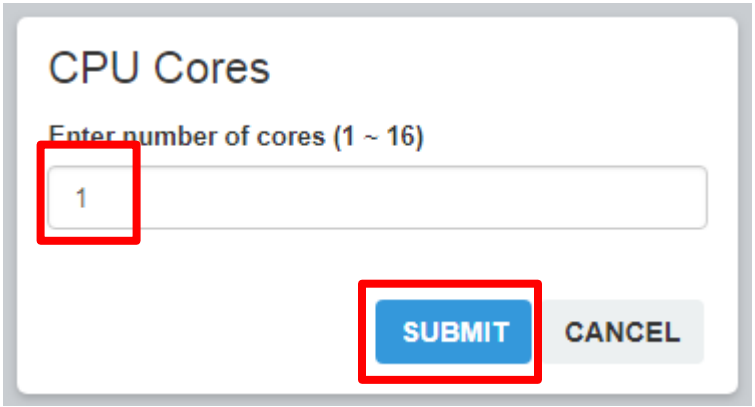
- Click “-umode”
  - Select “Sample” in the “Menu”





Now, submit

- Click “Submit”
  - Select the number of cores and submit.



After simulation is over,

- Click “Simulation” and select “Monitoring”
  - Then, you can see the simulation results.