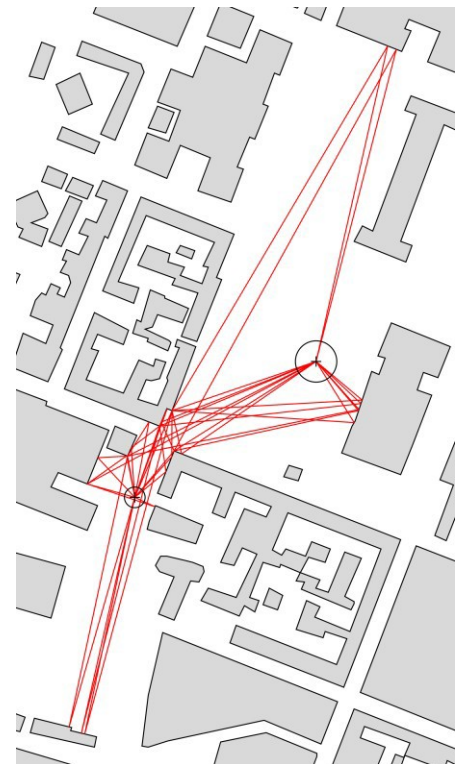




## Company-paid R&D Master Thesis Project in Denmark in collaboration with University of Bologna, Italy

<b>Partners</b>	Intel Denmark
<b>City</b>	Aalborg, Denmark: a student-friendly town with a large international student community ( <a href="http://www.visitaalborg.com/">http://www.visitaalborg.com/</a> ).
<b>Grant</b>	1500€ per month provided by Intel.
<b>Duration &amp; start</b>	Nine to twelve months, starting date to be agreed upon.
<b>Title</b>	<b>From stochastic to deterministic radio channel modeling</b>

**Description** For some phenomena that interest modern cellular networks, stochastic channel models are often insufficient to fully portray the behavior of the systems under analysis. In such cases, it is convenient to resort to deterministic channel models, i.e. to those models which predict the propagation of electromagnetic energy using Maxwell's equations. The key to enable the use of similar models lies in the availability of accurate geometrical and electromagnetic representations of the environment in which the models are expected to operate. The candidate will join a team of engineers and researchers analyzing the effects of those inaccuracies that affect the electromagnetic representation of the environments. In particular, under the supervision of such a team, she/he will undertake the formulation and the implementation of solutions aiming at reducing their effect.



**Prerequisites** Solid skills are expected in the following fields:

- Wireless communications
- C/C++ programming
- MATLAB

Good written and oral English skills are required.

**Application** Please contact preliminarily Prof. Vittorio Degli Esposti or Dr. Enrico M. Vitucci (e-mail: [v.degliesposti@unibo.it](mailto:v.degliesposti@unibo.it), [enricomaria.vitucci@unibo.it](mailto:enricomaria.vitucci@unibo.it))  
Apply to job 709346 on <http://jobs.intel.com/>; attach CV and motivation letter.  
When doing so, please also send CV and motivation letter to the following contact.

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