

# FUTURE JOB ROLES



## ENGINEERING AND RESEARCH & DEVELOPMENT

### HIGHLY AUTOMATED DRIVE ENGINEER



Vehicle controlling is a complex science. The design of a control architecture needs knowledge about the vehicle specific sensors, actuators and dynamics. The different parts can be designed and tested in different environments like in simulation environments or on the public road.



The development of vehicles' active safety systems has reached the level when the human driver can be helped or partially replaced by control systems. With highly automated or with self-drive vehicles road safety can be largely improved in the future.



Highly automated drive engineers are able to design and test complex vehicle control systems, they require knowledge about vehicle dynamics and modeling, are familiar with the typical vehicle sensors and signal processing, and the decision making methods that controls vehicle motion through the actuators.

The EC support for the production of this publication does not constitute endorsement of the contents, which reflects the views only of the authors, and the Commission cannot be held responsible for any use that may be made of the information contained therein.