



Iveco Group N.V.
Corporate Seat: Amsterdam,
the Netherlands
Chamber of Commerce
Registration no.
83102701

Iveco Group (MI: IVG) is a global automotive leader active in the Commercial & Specialty Vehicles, Powertrain, and related Financial Services arenas. Each of its eight brands is a major force in its specific business: IVECO, a pioneering commercial vehicles brand that designs, manufactures, and markets heavy, medium, and light-duty trucks; FPT Industrial, a global leader in a vast array of advanced powertrain technologies in the agriculture, construction, marine, power generation, and commercial vehicles sectors; IVECO BUS and HEULIEZ, mass-transit and premium bus and coach brands; Iveco Defence Vehicles, for highly-specialised defence and civil protection equipment; ASTRA, a leader in large-scale heavy-duty quarry and construction vehicles; Magirus, the industry-reputed firefighting vehicle and equipment manufacturer; and IVECO CAPITAL, the financing arm which supports them all. Iveco Group employs approximately 34,000 people around the world and has 28 manufacturing plants and 29 R&D centres.

FPT Motorenforschung AG in Arbon has around 250 highly qualified employees working with commitment and acknowledged success. As the main innovation center for FPT Industrial, the site is involved in developing future powertrain solutions (not only in electrified powertrains, hybrids and fuel cells, but also novel engines concepts and alternative fuels) and is therefore at the forefront of a transition towards a future of alternative propulsion systems.

We would like to fill the following position as soon as possible:

Electric Schematic developer (Battery Pack)

The successful candidate shall translate functional requirements of Battery Pack designs into compliant wiring harness designs. He/she shall be able to calculate, dimension, design, sketch and draw wirings of any kind (LV (Low Voltage) and HV (High Voltage)), compliant to automotive standards. Ideally the successful candidate will be able to prototype and validate those items on our in-house lab premises.

Your tasks

- Correct definition, dimensioning, design and drawing of wiring harnesses of any kind
- Commissioning and testing of wiring harnesses
- Correct dimensioning, design and drawing of busbar conductors according to automotive standards
- Maintaining PLM (Product Lifecycle Management) of wiring harnesses
- Technical partner to system and subsystem suppliers
- Managing and supervising of component design validation procedure: technical documentation release, virtual validation, FMEA (Failure Mode Effects Analysis)
- Planning and supervising test of components on testbenches or vehicles
- Communicating and presenting results
- Working closely with various internal laboratories, workshops and test staff

FPT Motorenforschung AG
Schlossgasse, 2
Postfach 80
9320 Arbon – Switzerland
Ph: +41 71 447 74 77
VAT n° CHE-108.055.502

Your profile

Basic Qualifications:

- Professional or university education degree in electrics, electronics, electric or systems engineering, mechatronics, automobile diagnostics or related with minimum 2-3 years of experience in a similar role
- Proven record of accomplishment in design, release and test of automotive electrics
- Proficiency in ECAD for Harness designs
- Strong practical attitude in design and validation and test of:
 - Automotive Grade Wiring Harnesses
 - Automotive connector systems and standards
 - Thermal behaviour of wiring systems
 - System level signal integrity and design for EMC (Electro Magnetic Compatibility)
- Able to document and communicate results according to target group
- Able to communicate and align on level with sub suppliers and internal customers
- Highly motivated and accurate working self-starter
- Willing to constantly learn
- Skilled and willing to interact in a multinational environment
- English language B2, written and spoken
- German language A2, written and spoken

Preferred Qualifications:

- Expertise of Capital Harness eCAD Design Suite
- Understanding of CREO mCAD
- Good knowledge of Automotive Bus systems such as CAN (Controller Area Network), isoSPI etc. and respective tools like CANalyzer
- Experience with safety critical product development
- Experience with FMEA, DVP (Design Validation Plans), ISO 26262 methodology, and relevant automotive standards
- Experience in HIL (Hardware in The Loop) and SIL (Software in the Loop) (Software in the Loop) testing environments
- Desire to contribute to practical engineering sample test and design validation
- Fluency in German language, written and spoken

Interested?

Please send your application in English to recruitment.arbon@ivecogroup.com

FPT Motorenforschung AG, Schlossgasse 2, CH-9320 Arbon, Tel. +41 71 44 77 477,
www.fpt-motorenforschung.ch