



12 PhD positions open in the
H2020-ITN-MSCA project **INFRASTAR**
APPLY NOW [here](#)

Innovation and Networking for Fatigue and Reliability Analysis of Structures – Training for Assessment of Risk –

INFRASTAR aims to develop knowledge, expertise and skill for optimal and reliable management of structures. The generic methodology will be applied to bridges and wind turbines in relation to fatigue offering the opportunity to deal with complementary notions (such as old and new asset management, unique and similar structures, wind and traffic actions) while addressing 3 major challenges:

4 PhDs in new non-destructive testing methods for early aged damage detection:

[Advanced ultrasonic instrumentation for interferometric monitoring](#) (BAM, Germany) ESR1

[Fibre-optic sensor for fatigue monitoring](#) (Ifsttar, France) ESR2

[Sensor integration, data fusion and information management for industrial monitoring systems](#) (NEOSTRAIN, Poland) ESR3

[NDT parameters for fatigue damage identification in structural elements](#) (EPFL, Switzerland) ESR4

4 PhDs in advanced modelling of concrete fatigue behaviour:

[Fatigue of reinforced concrete structural element](#) (EPFL, Switzerland) ESR5

[Reliability of structures exposed to traffic loads and environmental loading](#) (Ifsttar, France) ESR6

[Lifetime cyclic behaviour of gravity base foundations for offshore wind turbines](#) (GuD, Germany) ESR7

[Fatigue of wind turbine concrete structures](#) (COWI, Denmark) ESR8

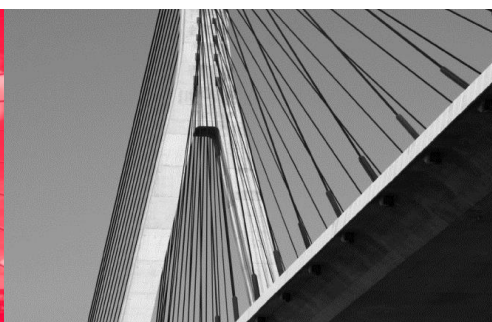
4 PhDs in probabilistic approach of structure reliability under fatigue:

[Fatigue reliability of concrete wind turbine and bridge elements](#) (AAU, Denmark) ESR9

[Optimal maintenance planning of existing structures using monitoring data](#) (PHIMECA, France) ESR10

[Risk assessment](#) (AAU, Denmark) ESR11

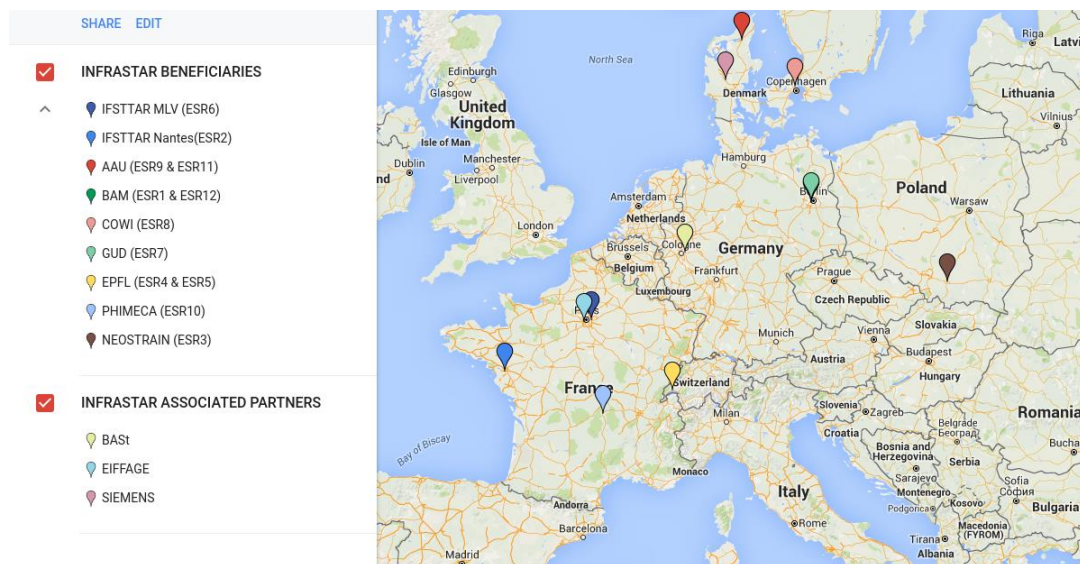
[Quantification of the value of monitoring information](#) (BAM, Germany) ESR12



The network partners provides to the **12 PhD students** (Early Stage Researcher) with a system-wide understanding of structure management on bridges and wind energy technology. This outstanding research training offers ranges from knowledge in materials to design loads, design of structures, monitoring of existing structures, development of sensors and innovative calculation methods for structural analysis, optimal and reliable management of structures.

INFRASTAR includes Scientific Research in:

- 4 First-Class Academic Organisations (Ifsttar/France, EPFL/Switzerland, BAM/Germany, AAU/Denmark),
- 4 Industrials Companies (PHIMECA/France, GuD/Germany, COWI/Denmark, NEOSTRAIN/Poland),
- 3 associated partners (EIFFAGE/France, BAST/Germany, SIEMENS/Denmark).



The **12 PhD positions** are for a start this year October, 1st.

The applications have to be done online [here](#)

Website: <http://infrastar.eu/>

Contact: infrastar@ifsttar.fr

BENEFITS

- **Full position with competitive salary**
- **Monthly mobility allowance: 600 € (researcher without family obligation) – 1100 € (researcher with family obligation at the time of recruitment to the project)**
- **Please note the Marie Skłodowska-Curie Mobility Rule: Candidates must not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the 3 years immediately prior to the reference date.**