Karlsruhe, 02.04.2020

GERMAN FEDERAL DEPARTMENTAL RESEARCH EXAMPLE: BAM
Federal departmental research organisations

- Basis -

Support from the Federal Government, e.g. for
• ensuring citizens’ rights for life and physical integrity
• protecting the natural basis for future generations

(Articles 2 and 20a of the Federal Republic of Germany’s Constitution)
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Federal Ministry of Health (BMG):

Federal Ministry of Labour and Social Affairs (BMAS):

Federal Ministry of Family Affairs, Senior Citizens, Women and Youth (BMSFJ):

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Federal Ministry of Food and Agriculture (BMEL):

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU):

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Federal Ministry of Transport and Digital Infrastructure (BMVI):

Federal Ministry for Economic Affairs and Energy (BMWi):

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Federal Ministry of the Interior, Building and Community (BMI):

Federal Ministry of Defence (BMVg):

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Federal Ministry of Education and Research (BMBF):

Federal Foreign Office:

Federal Ministry of Economic Cooperation and Development (BMZ):

Federal Government Commissioner for Culture and the Media:

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Typical tasks of federal departmental research organisations

• **Research and Development**

• **Testing**, analysis, approval;
  Monitoring of equipment and manufacturing, processes, market surveillance;
  Accident investigation, incidents and danger (safety, health, environment, welfare);
  Long-term monitoring, operation of databases

• **Consulting** (ministries, other public and private institutions), information, standardisation, regulation

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Examples for areas of federal departmental research

- Consumer and environmental protection
- Measures against dangerous diseases, pharmaceuticals
- Employment law and occupational safety
- Ensuring food production, promoting agricultural production and fisheries
- Shipping and meteorological service
- Use of nuclear energy
- Defence and civil protection
- Dimensions, weights and time determination
- Weapons and explosives law
- Road transport and highways

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Federal research departmental organisations offer attractive working conditions

- Challenging topics:
  - practical, problem-oriented and interdisciplinary research
  - at the interface of politics, industry and society
  - on current issues - society, technology and industry

- Excellent research environment, outstanding infrastructure

- Work in national and international networks with universities, other research organisations and enterprises

- Cooperation with universities: Ph.D.s, junior professorships, joint appointments
Informal Group “Ressortforschung”

• Alliance of research institutes of the Federal Government
• 42 institutions from 13 ministries
• identify career opportunities:

www.ressortforschung.de/de/karriere/index.htm
Competence Centre
Safety in Technology and Chemistry

BAM is a senior scientific and technical federal authority with responsibility to the Federal Ministry for Economic Affairs and Energy (BMWi)
Our tasks

Research, testing and consultation under one roof

- Statutory duties for technical safety
- Consulting the German Federal Government and Industry
- Research and development
- Contribution to standards and statutory regulations
- Testing, analysis, approval
- Technology transfer
Sites & branches

- Fabeckstraße branch
- Adlershof branch
- Lichterfelde headquarters
- Technical Safety Test Site, Horstwalde

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**Facts & figures**

**Organisation**
- 11 departments divided into 72 divisions and sections

**People**
- 1630 staff including trainees, Ph.D. students (in cooperation with universities), post-docs
- 1070 of which are permanent staff

**Budget**
- €144 m basic financing
- €13.2 m third-party funds
- €9.6 m income from testing, analysis, accreditation

Status: December 2018

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Facts & figures

990 publications
1470 presentations
6000 test certificates, approvals, expert reports
1300 national and international committees
150 teaching positions and professorships
200 laws/regulations
570 standards and technical regulations (ISO, CEN, DIN)

Status: December 2018 / May 2017
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Interdisciplinarity

- Pooling competences from different disciplines in the focus areas
- Interdisciplinary approach to cross-cutting issues of safety in technology and chemistry
Career Paths
Example BAM

Leading Scientists e.g.
- R&D and Innovation
- High level policy advise
- Management
- Knowledge Transfer
- Joint Professorships

Senior Scientists e.g.
- Excellent science
- Scientific independance
- Leadership skills
- Policy advise
- Tenure

Post Docs e.g.
- Scientific qualification
- Vertical leadership
- Policy advise
- Proposal writing
- Entrepreneurship

PhD Students
in cooperation with universities

Excellent infrastructure
National/international networks
Industry cooperation
Policy advise
Standardisation/regulation

Senior Scientists
- e.g.
- Excellent science
- Scientific independance
- Leadership skills
- Policy advise
- Tenure

Joint appointments
Internal research funding
Internal collaborative projects
„People & Ideas“ programme
Junior Professorships
Senior Scientists e.g.
- R&D and Innovation
- High level policy advise
- Management
- Knowledge Transfer
- Joint Professorships

Post Docs e.g.
- Scientific qualification
- Vertical leadership
- Policy advise
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Excellent infrastructure
National/international networks
Industry cooperation
Policy advise
Standardisation/regulation

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#WhyBAM:
“...because our research is Interdisciplinary and International.”

Check out current job openings

Talk to us at the booth outside
Good luck for your career and happy Easter!

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