Top Location for Life Sciences

The region Berlin-Brandenburg offers

- **Cutting Edge Science:**
  - Charité – largest university hospital in Europe
  - 5 universities, 4 colleges of applied science and 19 non-university research institutes (Max-Planck-, Helmholtz-, Fraunhofer Institutes etc.)

- **World Class Economic Basis:**
  - Global players: Bayer HealthCare Pharmaceuticals, Menarini Group/Berlin-Chemie, BASF, Sanofi-Aventis, Pfizer, Shire, BIOTRONIK, Bausch & Lomb, Takeda Pharma etc.
  - 24 pharmaceutical companies with some 10,000 employees
  - 195 biotechnology companies with some 4,000 employees
  - 278 medtech companies with about 9,900 employees

- **Highly Qualified and Specialized Personnel:**
  - 3,000 life sciences graduates per year
  - 170,000 students in the region
Top Location for Life Sciences

The region Berlin-Brandenburg offers

- **Excellent Infrastructure:**
  - 8 technology parks with lab and office space at moderate prices
  - Fast access to all European markets

- **Strong Governmental Support:**
  - Efficient regional networks
  - Attractive grant programs for R&D, investment and personnel
Why Berlin-Brandenburg?

- More than 200 biotechnology companies with over 4,000 employees working in the sector, the Berlin region is Germany’s premier biotechnology center and one of the top five biotech centers in Europe.
- "Global Players" of the pharmaceutical sector are located here
- Excellent research infrastructure with effective networks: 350 scientific working groups with 5,000 scientists (at Charité only)
- Outstanding location for clinical trials
- A highly qualified labor force
- Infrastructure costs for R&D in the region are below international levels
- Comprehensive support programs for R&D, investment and personnel
Why Berlin-Brandenburg

Key Location Advantages:

- Long medical tradition: Charité University Clinic, clinic of one of most famous doctors in German history – Rudolf Virchow
- Outstanding international scientific environment
- Excellent supply networks, leading medical facilities (e.g. German Heart Center)
- With 120 hospitals the region is an important market for medical technology and services
- Largest R&D test market for pharmaceutical products, medical devices and materials
- Close proximity of companies and research institutes enables close co-operation on basic research, development and application.
- Growing interdisciplinary activity and co-operation between medicine, biotechnology, chemistry and optical technology, high level of business competence
Realize the potential

- €22bn total turnover*
- 278 medtech production and medical service companies
- Charité: largest European university hospital
- 120 hospitals in the region - 71 of them in Berlin
- Every eight employee of the total number of employees works in the healthcare market*
- Around 350,000 employees in total*
- 29,000 physicians
- Masterplan HealthCapital Berlin-Brandenburg

* Source: HealthCapital Berlin-Brandenburg, 2008
Join the Industry Sector

Biotech Networks
- Biotech Network for Biopharmaceutical Technologies (BBiT)
- Berlin-Buch Center for Molecular Diagnostics and Bioanalytics (BMDB)
- Biomedicine and Biotechnology Berlin-Brandenburg
- Bioinformatics Network Berlin-Brandenburg
- Biomedical Network Berlin-Brandenburg
- Biopharmaceutical Network Berlin-Brandenburg
- Biotechnology Network Berlin-Brandenburg

Scientific Institutions
- Berlin-Brandenburg Center for Regenerative Therapies
- Berlin Institute of Technology
- Brandenburg University of Technology
- Charité – Universitätsmedizin Berlin
- Fraunhofer Institute for Applied Polymer Research (IFAM)
- Fraunhofer Institute for Biomedical Engineering (IBMT)
- Free University Berlin
- German Heart Institute Berlin
- German Institute of Human Nutrition (DIfE)
- German Rheumatism Research Center (DRFZ)
- Humboldt-Universität zu Berlin
- Institute of Polymer Research of the GSF Research Centre
- Leibniz University of Applied Sciences
- Leibniz-Institute for Agricultural Engineering (FRA)
- Leibniz-Institute for Molecular Pharmacology (FMP)
- Leibniz-Zentrum für Klimafolgenforschung (ZFF) e. V.
- Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch
- Max Planck Institute for Colloids and Interfaces
- Max Planck Institute for Infection Biology
- Max Planck Institute of Molecular Plant Physiology
- Robert Koch Institute
- University of Applied Sciences Berlin
- University of Applied Sciences Wildau
- University of Potsdam

Source: BioTOP Report 2011
Medical Technology Berlin-Brandenburg

- 278 companies with around 9,900 employees*
- Total industry turnover: € 1.5 billion*
- Emphasis on cardiology, laser-medicine, minimally invasive medicine, radiation therapy, and biomedicine

- Outstanding companies working in medical technology
  - aap Implants  [www.aap.de](http://www.aap.de)
  - Acri.Tec/Carl Zeiss Meditech  [www.acritec.de](http://www.acritec.de)
  - Berlin Heart  [www.berlinheart.de](http://www.berlinheart.de)
  - Biomet  [www.biomet.de](http://www.biomet.de)
  - BIOTRONIK  [www.biotronik.com](http://www.biotronik.com)
  - Eckert & Ziegler  [www.ezag.de](http://www.ezag.de)
  - W.O.M.  [www.world-of-medicine.com](http://www.world-of-medicine.com)

- Regional network:  [www.tsbmedici.de](http://www.tsbmedici.de)

* Source: Branchenreport Medizintechnik Berlin-Brandenburg 2010, TSB Medici
Global Player

- **Bayer HealthCare Pharmaceuticals**
  - 9.949 billion EUR sales; 37,000 employees (4,500 in Berlin)
  - focus: gynecology & andrology, oncology, specialized therapeutics, diagnostics, radiopharmaceuticals
  - [www.bayerpharma.de](http://www.bayerpharma.de)

- **BIOTRONIK**
  - 488 million EUR sales; 5,600 employees (1,800 in Berlin)
  - leading manufacturer of cardiological implants worldwide
  - [www.biotronik.de](http://www.biotronik.de)

- **Pfizer**
  - 67.4 billion USD; 100,000 employees (3,200 in Germany, 750 in Berlin)
  - focus: cardiovascular diseases, central nervous system, rheumatism & pain therapy, cancer, infectology & HIV, respiratory tracts, metabolic diseases, ophthalmology
  - [www.pfizer.de](http://www.pfizer.de)
Research and Development

Outstanding Research Institutions

- **German Heart Institute Berlin**
  [www.dhzb.de](http://www.dhzb.de)

- **German Arthritis Research Center**
  [www.drfz.de](http://www.drfz.de)

- **Fraunhofer Institute for Production Facilities and Construction Technology, Medical Technology Department**
  [www.ipk.fhg.de](http://www.ipk.fhg.de)

- **Fraunhofer Institute for Reliability and Microintegration**
  [www.izm.fhg.de](http://www.izm.fhg.de)

- **Max-Delbrück-Center for Molecular Medicine**
  [www.mdc-berlin.de](http://www.mdc-berlin.de)

- **PTB – National Metrology Institute**
  Division of Medical Physics and Metrological Information Technology
  [www.ptb.de](http://www.ptb.de)

- **Robert Koch Institute for Infectious Diseases**
  [www.rki.de](http://www.rki.de)
Clinical Infrastructure

Hospitals

- Largest hospitals in Berlin:
  - Charité – University Medicine Berlin: 3,200 Beds
  - Vivantes Network for Health: 5,000 Beds
  - HELIOS Kliniken GmbH: 1,700 Beds
  - SANA Kliniken Berlin-Brandenburg GmbH: > 1,100 Beds

- Specialist clinics:
  - Unfallkrankenhaus Berlin (UKB) – one of the largest and most excellent trauma centres in Germany: first fully digitalized hospital in Germany
  - Elisabeth Clinic: specialized Laser clinic
  - German Heart Center (DHZB): only training center for cardio-technicians in Europe; internationally renowned high-performance hospital for the treatment of cardiovascular and thoracic diseases, for the implantation of mechanical circulatory support systems and for heart and lung transplantation
Clinical Infrastructure

University Clinics with R&D
Charité – University Hospital Berlin

- Neurosciences
- Oncology
- Cardiovascular Research
- Muscular-skeletal Research
- Immunopathology / Infectious Diseases / Rheumatology / Allergy Disorders
- Molecular Medicine / Genetics / Genomic Sciences
- Transplantation Medicine

www.charite.de
Regional Life Sciences parks

1. Biotechnology Center Hennigsdorf
   www.cobios-technologiezentrum.de
2. Campus Berlin-Buch
   www.bbb-berlin.de
3. Berlinbiotechpark
   www.berlinbiotechpark.de
4. Berlin Adlershof
   www.wista.de
5. Biotech Campus Potsdam
   www.biotechcampus.de
6. Biotechnology Park Luckenwalde
   www.bio-luck.de
7. GO:IN Innovation Center
   www.goin-potsdam.de
8. Innovationspark Wuhlheide
   www.ipw-berlin.de
Universities

- Humboldt University
  - 1,400 students in life sciences
  - Faculties of biology, chemistry and pharmacy
  - Charité University Clinics – 8,000 students
    www.hu-berlin.de

- Free University
  - 3,470 students in life sciences
  - Faculties of biology, chemistry and pharmacology
    www.fu-berlin.de

- Technical University
  - Institute for Construction, Micro- and Medical Technology
    www.tu-berlin.de

- Potsdam University
  - Institute for Biochemistry, Biology and Nutrition Research
    www.uni-potsdam.de
Networks and Initiatives

- **Berlin Center for Medical Technology (TSBmedici)**
  www.tsbmedici.de

- **Center for Microsystem Technology (ZEMI)**
  www.zemi-berlin.de

- **Network for Integrated Systems in Telemedicine (NEST)**
  www.nest-teledizin.de

- **Competence Network for Optical Technologies in Berlin and Brandenburg (OptecBB)**
  www.optecbb.de

- **Imaging Network Berlin (INB)**
  www.imaging-netzwerk-berlin.de

- **Cluster of Excellence “NeuroCure”**
  www.neurocure.de

- **Competence Centre for Miniaturized Monitoring and Intervention Systems (MOTIV)**
  www.motiv-medtech.de
Destinations with a focus on Europe

Source: Berlin Brandenburg Airport