



Funding Opportunities for Research Collaboration

Road to a 100% Renewable Energy System, August 1-2,
2011

Opportunities...

1. **Why collaborate** in the first place?
2. Danish resources to **support network** activities:
 - Bilateral Network Program
 - Innovation Center Denmark, Silicon Valley
3. Danish resources to **support research** collaboration
 - Danish research **funding framework**
 - The Danish **Strategic** Research Council
 - The Danish **Independent** Research Council
 - The Danish National **Research Foundation**
4. US resources to **support research** collaboration
 - National Science Foundation (**NSF**) programs
5. Examples of **collaborative projects**



Why collaborate with California?



1. **Knowledge:** The best universities in the world: 1/3 of the world's 20 best universities is in California. UC: best public university system
2. **Capital:** 1/3 of world's VC is placed in Silicon Valley (Sand Hill Rd)
3. **Workforce:** The largest concentration of High educ. workers in US. + 300.000 researchers, engineers and technicians in Silicon Valley
4. **Business:** Home to *the* leading technology companies in the world
5. **Culture:** a unique ecosystem where researchers, VCs and entrepreneurs collaborate in an open and dynamic environment
6. **Legislation:** Business friendly climates.





Why collaborate with Denmark?

#1 ICT leading nation in the world (3. year in a row)

Source: World Economic Forum, Global Information Technology Report, 2008-2009 “Denmark is the most networked economy in the world”

#1 ICT ready country in the world

Source : Economist Intelligence Unit together with IBM “E-readiness rankings” 2009

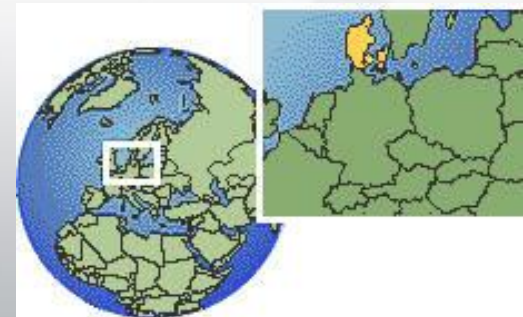
#1 Most hospitable country to foreign capital investment

Source : Forbes Capital Hospitality Index, '10 “Most Hospitable Countries to Foreign Capital Investment”

#4 most competitive country in the world

Source : The Global Competitiveness Report 2009-10

#1 ranking universities in Scandinavia
+1 pct. on GDP spent on public R&D in 2011





Danish Bilateral Network Program

- **2.5 million USD** to support bilateral network activities.
- **Who can apply?** Researchers employed at Danish universities and at R&D companies in DK
- Deadline: **Fall 2011**
- **Applications** for the following grant types are invited:
- Exploratory bilateral **scientific workshops and conferences** with participation of researchers from Denmark and **USA**
- **Visiting Scientist Grants** - Travel between Denmark and the US to identify collaborative projects and p



Danish Agency for Science
Technology and Innovation

Ministry of Science
Technology and Innovation

- Find most recent call [here](#).

CITRIS-Denmark Program



- Goal: Support **exchange** and **bilateral network activities**.
- **2-3 yearly events** on research areas of mutual interest
- **Annually 24 months of visiting scholarships** at the 4 UC's part of CITRIS, Berkeley, Davis, Merced and Santa Cruz
- **Who can apply for visiting scholarships?** Researchers employed at Danish public research institutions.
- Deadline: **October 5, 2011**
- Most recent call [here](#). (call about program with **Stanford** [here](#))
- Evaluations from previous visitors [here](#).



Denmark-sponsored California events

- **Smart Grid Applied Week** (June 2011)
- Workshop: Road to a **100 pct. fossil Free System** (August 2010)
- UC-DK Summer School on **Renewable Energy** (August 2011)
- UC-DK Int. Workshop on **Synthetic Biology** (August 2011)
- UC-DK Workshop on **Indoor Environment Technology** (Sep. 2011)
- **Explosions of Virtualities** Workshop w. Stanford (October 2011)
- "**Smart Grid Applied - part II**" in Denmark (October 2011)
- **Foods for Health** Workshop with USDA and UC Davis (Nov. 2011)
- US-DK **Photonics** Workshop III (Jan. 2012)





Danish support of research collaboration





DCSF support of research collaboration

- Overall yearly budget: 1.1 billion DKK in 2010
- 20 pct. of budget can be transferred to international calls
- 54 pct. of all funding goes to applicants with international partners
- International dimension = key criterion in the assessment
- Anyone may apply for funding and participate. Funded research activities has to promote and strengthen Danish research.
- international participation is covered, e.g. costs associated with collaborative research, procurement of research from foreign research environments and bringing guest researchers to Denmark.
- For more information see also <http://en.fi.dk/> under Councils and Commissions > The Danish Council for Strategic Research.





DCIR support of research collaboration

- Overall yearly budget: 1.4 billion DKK in 2010
- 20 pct. of budget can be transferred to international calls
- **Anyone can apply.** Objective: To support the best Danish research
- DCIR can at any time support and **match** the objective of a strong **Danish participation in international research collaboration.**
- **Examples:** Int. guest researchers, postdoc scholars abroad and efforts to attract top int. research talents to Denmark.
- **Mutual int. mobility:** DCIR and NSF: **Joint special effort** to give **information** on postdoc's funding or research stay in DK or US.
- More [here](#).





DNRF support of research collaboration

- **Nordic Research Opportunity Program (NROP):** Partnership w. NSF: Visiting scholarships to graduate research fellows at DNRFs Centers of Excellence for up to 12 months. More [here](#).
- **Professorship programs:** The “Niels Bohr Visiting Professorship” and the “DNRFs’ s Professorship”, More [here](#).
- **Talent Recruitment:** New special talent-recruitment initiative targeted to the DNRFs existing Centers of Excellence. More [here](#).
- More info here: <http://www.dg.dk/en/>



Danmarks
Grundforskningsfond
Danish National
Research Foundation



NSF support of research collaboration

- **Nordic Research Opportunity Program (NROP):** A partnership with NSF: Visiting scholarships to graduate research fellows at the foundation's Centers of Excellence for up to 12 months. See [here](#).
- **International Research Experiences for Students (IRES):** a three-year NSF grant to support a Danish-U.S. collaboration for post. docs; “the best and brightest”. Learn more [here](#)
- **Integrative Graduate Education and Research Traineeship Program (IGERT):** Int. *and* interdisciplinary research experience of grad. students, requires a US and Danish researcher partnership, Costs for the students, travel costs, housing, stipend, approx. 6-8 weeks visiting stay in DK is covered. See [here](#).
- Learn more about possibilities through NSF here: <http://www.nsf.gov/>



Success story I

Ipower

25 million USD/5 y

32 partners

UC Berkeley (CITRIS) partner

Ipower Platform

In 2025, 50% of Denmark's electricity comes from wind energy. This ambition will iPower Platform honor by developing an intelligent and flexible energy system that can handle a fluctuating power generation.

www.ipower-net.dk





Success story II

UC Davis-UC Santa Cruz-Aalborg: USD 70 K

2011 CITRIS Seed Funding Awards

June 2, 2011

Intermittency-friendly and Super-efficient Tri-generation (Combined Production of Electricity, Heating, and Cooling) to Support Large-scale Penetration of Renewable Sources in Buildings and Cities

Ali Shakouri, UC Santa Cruz, Morten Blarke, Aalborg University and Bryan Jenkins, UC Davis

http://citris-uc.org/news/2011_citris_seed_funding_awards

California - Denmark Summer Workshop

Home

on Renewable Energy, August 1st - 19th, 2011

<http://localrenew.soe.ucsc.edu/home>



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[Impressive Number of Grants to Danish American Research Projects](#)



Welcome to **US-DK Research Funding**, an online tool that facilitates Cross-Atlantic research collaborations.

INNOVATION CENTER DENMARK
SILICON VALLEY



Denmark was proud to sign the bilateral science and technology agreement with the US in September 2009. Within a range of areas our two countries have some excellent research communities with far-reaching potentials for further collaboration.

To strengthen the future collaboration between the two countries, this site is a gather of relevant information for students, researchers, scientists, and others who want to enhance research collaboration between Denmark and the US. Here you can find a database of Danish and American research funds, information on research agreements between Denmark and the US

See: <http://usdkresearch.squarespace.com/>

Or contact me: lbn@innovationcenterdenmark.com