

Årsberetning 2021

Sino-Danish Center for Education and Research

Danmarks Tekniske Universitet



SDC

The university partnership
Denmark – China

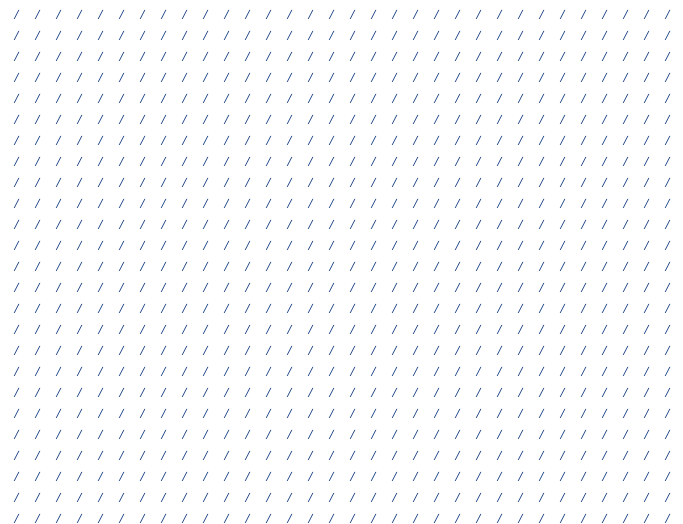
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Indledning

En ekstraordinær indsats

De seneste år har forskere, undervisere og studerende fra de danske universiteter udvist en helt særlig grad af initiativlyst og fleksibilitet for at styrke det dansk-kinesiske samarbejde inden for SDC, på trods af at samarbejdet har været udfordret af globale rejserestriktioner.

Studerende har investeret helhjertet i at skabe et stærkt virtuelt studiemiljø, og undviserne har ydet en enorm indsats i arbejdet med at omlægge undervisningen til online, ligesom forskningssamarbejdet mellem Danmark og Kina stadig udvikles. Antallet af videnskabelige publikationer udgivet inden for rammerne af SDC-samarbejdet er konstant stigende og kulminerede foreløbig i 2021 med knap 400 publikationer, heriblandt publikationer i førende tidsskrifter som 'Nature Communications' og 'Nature Nanotechnology'.

SDC har siden 2012 medfinansieret knap 250 ph.d.-forløb ved de danske universiteter, og i 2021 påbegyndte 21 ph.d.-studerende et forskningsforløb med finansiering fra SDC i rygsækken.

De ph.d.-studerende indgår i samarbejder mellem danske og kinesiske forskningsmiljøer på vej mod en dobbeltgrad, og det høje niveau blev understreget, da ph.d.-studerende inden for SDC Social Sciences Annesofie Lindskov i 2021 modtog Uddannelses- og Forskningsministeriets EliteForsk rejsestipendium.

At få flere danske studerende til at vælge SDC's kandidatuddannelser har fortsat høj prioritet og i 2021 iværksatte det danske SDC-sekretariat en ekstern analyse af rekrutteringsmulighederne. En rekrutterings- og markedsføringsplan, der blandt andet fokuserer på at styrke samarbejdet med de danske universiteter, er under udarbejdelse.

De seneste år har det krævet en stor indsats at sikre et stærkt og velfungerende studiemiljø for SDC's danske og kinesiske studerende. SDC's pædagogiske enhed SMIL (Study Milieu and Intercultural Learning), der er forankret ved Roskilde Universitet, har derfor arbejdet fokuseret på at skabe 'det gode studiemiljø fra optagelse til dimission', og årets studiemiljøundersøgelse viser, at de mange initiativer har ramt plet.

På UCAS' Yanqihu campus i Beijing er SDC's bygning færdiggjort og står nu klar til atter at danne rammen om SDC's mange aktiviteter. SDC har opbygget en stærk vidensbank, når det kommer til samarbejde mellem kinesiske og vestlige institutioner, og samarbejde med erhvervslivet rækker langt udover forskning og uddannelse.

Det tætte samarbejde med danske repræsentationer og virksomheder i Kina blev understreget, da SDC sammen med den danske ambassade i Kina, Det Danske Handelskammer i Kina og Danish-Chinese Business Forum lancerede et nyt redskab til forskere, erhvervsfolk og andre med interesse i det kinesiske marked. Den første udgave af 'Danish Business Outlook on China Index' udkom i januar 2021, og indexet giver indsigt i tendenser inden for en række brancher som energi, life science og fødevarer. Indexet udkommer nu hvert kvartal.

I den danske SDC-bestyrelse afløste prodekan for international uddannelse ved CBS Martin Jes Iversen sin kollega Dana Minbaeva, mens dekan for Natural Sciences ved Aarhus Universitet Kristian Pedersen overtog pladsen efter Lars Bo Nielsen, der skiftede til en stilling som direktør for Lægemedelstyrelsen.



Årgang 2021 på seminar med fokus på interkulturelt samarbejde og netværk.



Årsregnskab

Resultatopgørelse (DKK 1.000)	2021	2020
Indtægter		
Tilskud fra Uddannelses- og Forskningsministeriet	30.388	34.389
Tilskud fra universiteterne	30.600	30.300
Indtægter i alt	60.988	64.689
Udgifter		
Det danske SDC-sekretariat		
Personaleomkostninger	7.170	7.957
Driftsomkostninger	1.231	1.623
I alt	8.401	9.580
Faglige aktiviteter		
Uddannelsesprogrammer og faglige aktiviteter	19.047	14.898
Ph.d.-medfinansiering	36.208	30.147
I alt	55.255	45.045
Industriens Fonds Hus	4.623	94
Andre omkostninger	945	1.053
Udgifter i alt	69.224	55.772
Årets resultat	-8.236	8.917
Indestående midler ved AU	56.934	65.170

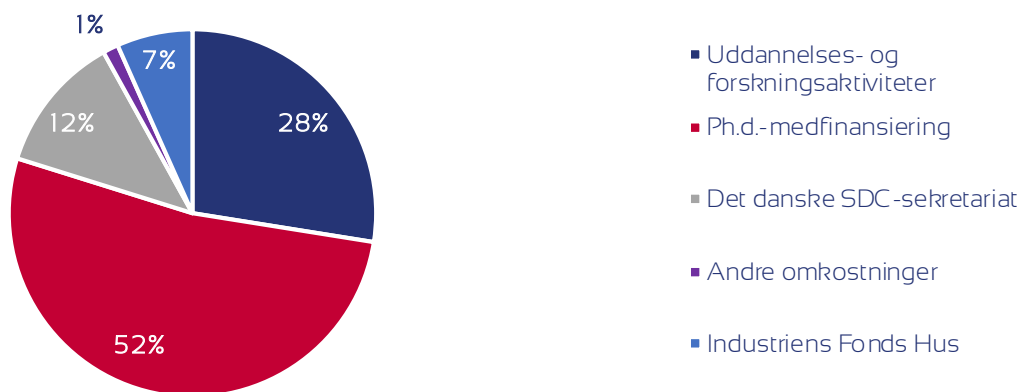
Økonomi

Fra dansk side er SDC finansieret af Uddannelses- og Forskningsministeriet og de danske universiteter. De otte universiteters tilskud beregnes forholdsmæssigt efter omsætning. Udbetalingerne fra SDC til de danske universiteter dækker over ph.d.-medfinansiering samt kompensation for uddannelses- og forskningsaktiviteter i Kina, uddannelsesaktiviteter i Danmark m.m.

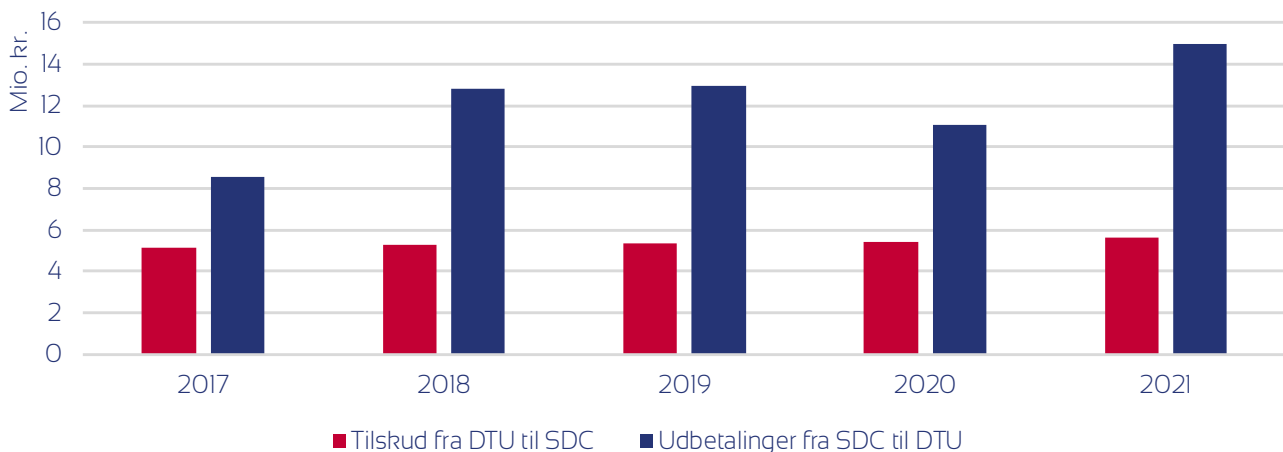
Indtægter 2021 - 61 mio. kr.



Udgifter 2021 - 69 mio. kr.



Danmarks Tekniske Universitet - tilskud og udbetalinger





Uddannelse

SDC udbyder otte kandidatuddannelser. På hver uddannelse kan optages 15 studerende via de danske universiteter og 15 studerende via University of Chinese Academy of Sciences. Uddannelserne 'Chemical and Biochemical Engineering' og 'Life Science Engineering and Informatics' er forankrede på Danmarks Tekniske Universitet. Optaget af studerende til de otte kandidatuddannelser er et fælles anliggende, hvor alle universiteter rekrutterer studerende til SDC's kandidatuddannelser.

Siden 2012 er 32 studerende med en bacheloruddannelse fra Danmarks Tekniske Universitet optaget på en af SDC's kandidatuddannelser. I 2021 blev ingen studerende fra Danmarks Tekniske Universitet optaget.

Optagne 2021 fordelt efter institution og kandidatuddannelse ved SDC

Institutionerne angiver, hvorfra de studerende har deres adgangsgivende bacheloruddannelse

	Neuroscience and Neuroimaging	International Food Quality and Health**	Water and Environment	Nanoscience and Technology	Chemical and Biochemical Engineering	Life Science Engineering and Informatics	Public Management and Social Development	Innovation Management	Total
Aarhus Universitet	3						2	2	7
Københavns Universitet				3			4	1	8
Aalborg Universitet	1							5	6
Syddansk Universitet								4	4
Andre danske institutioner*		4							4
Udenlandske institutioner	2	1	1		1		1	2	8
Total	6	5	1	3	1	0	7	14	37

* VIA University College og Business Academy Aarhus

** De første studerende blev optaget på 'International Food Quality and Health' i 2020.

Optagne 2017-2021 med en bacheloruddannelse fra Danmarks Tekniske Universitet

	Neuroscience and Neuroimaging	International Food Quality and Health	Water and Environment	Nanoscience and Technology	Chemical and Biochemical Engineering	Life Science Engineering and Informatics	Public Management and Social Development	Innovation Management	Total
2017			1		2				3
2018	1				1				2
2019	1				5	1			7
2020						1			1
2021									0
Total	2	0	1	0	8	2	0	0	13

Ph.d.-studerende

Nyindskrevne ph.d.-studerende

SDC medfinansierede i 2021 21 ph.d.-studerende, der begyndte et forløb ved de danske universiteter.

Aarhus Universitet

Food and Health

Glenn Hjort Andersen
Line Pedersen

Life Sciences

Mathias Klarlund
Ole Borup Svendsen

Copenhagen Business School

Social Sciences

Armin Scheer

Danmarks Tekniske Universitet

Sustainable Energy

Amalie Vang Høst
Diletta Damiano
Elisabeth Andreae
Jakob Meister
Peter Jul-Rasmussen
Sara Müller

Life Sciences

Magnus Haraldson Høie

Water and Environment

Zhiming He

Københavns Universitet

Food and Health

Claudia Squarzon

Nanoscience

Christina Schöttler Nielsen
Freja Liebach Guttesen

Water and Environment

Mia Staal Jensen

Syddansk Universitet

Sustainable Energy

Nicolai Bo Vanting

Life Sciences

Kamilla Ankær Brejndal

Aalborg Universitet

Social Sciences

Giovanni Giamello
Moumita Sen Gupta

Indskrevne ph.d.-studerende ved Danmarks Tekniske Universitet

Pr. 31. december 2021 var 31 ph.d.-studerende ved Danmarks Tekniske Universitet medfinansieret af SDC.

Sustainable Energy

Abhimanyu Pudi
Alina Anamaria Malanca
Amalie Vang Høst
Antonios Melas
Aysegül Kahraman
Diletta Damiano
Elisabeth Andreae
Emil Lidman Olsson
Ilaria Sorrenti
Ioannis Sifnaios
Jakob Meister
Jess Bjørn Rasmussen
Markus Enekvist
Mohammad Mehdi Mardani
Morten Lysdahlgaard Pedersen
Peter Jul-Rasmussen
Sara Golbarg
Sara Josefin Shapiro-Bengtzen
Sara Müller

Seonghyeon Jeong
Shu Li

Water and Environment

Anna-Ricarda Schittich
Ditte Marie Reinholdt Jensen
Jacopo Cogorno
Monica Coppo Frias
Zhiming He

Life Sciences

Anna-Lisa Schaap-Johansen
Deniss Petrovs
Jesper Duemose Nielsen
Magnus Haraldson Høie

Social Sciences

Gro Thorbjørn Berg Sørensen



Forskere og undervisere

I 2021 har 64 ansatte ved Danmarks Tekniske Universitet bidraget til de faglige aktiviteter ved SDC.

Sustainable Energy

Professor John Woodley
Professor Kim Dam-Johansen
Professor Manuel Pinelo
Professor Peter Glarborg
Professor Anker Degn Jensen
Professor Anne Ladegaard Skov
Professor Georgios Kontogeorgis
Professor Marie Münster
Professor Tomislav Dragicevic
Lektor Hao Wu
Lektor Jens Abildskov
Lektor Peter Szabo
Lektor Stig Wedel
Lektor Jakob Kjøbsted Huusom
Lektor Jakob Munkholt Christensen
Lektor Seyed Soheil Mansouri
Lektor Jianhua Fan
Lektor Qiuwei Wu
Lektor Weigang Lin
Lektor Xiaodong Liang
Seniorforsker Birte Holst Jørgensen
Seniorforsker Guangya Yang
Seniorforsker Xiaoli Guo Larsén
Seniorforsker Shi You
Adjunkt Huichao (Teresa) Bi
Postdoc Burak Ulusoy
Chefkonsulent Claus Erik Weinell
Ph.d.-studerende Emil Lidman Olsson
Ph.d.-studerende Amalie Vang Høst
Ph.d.-studerende Jess Bjørn Rasmussen
Ph.d.-studerende Shu Li
Ph.d.-studerende Sara Golbarg
Ph.d.-studerende Morten Lysdahlgaard Pedersen

Life Sciences

Professor Axel Thielscher
Professor Birte Svensson
Professor Ulrich auf dem Keller
Professor Susanne Brix Pedersen
Professor Morten Otto Alexander Sommer
Professor Ole Winther

Professor Lars Kai Hansen
Lektor Ding Ling
Lektor Kristoffer Hougaard Madsen
Lektor Lars G. Hanson
Lektor Paolo Marcatili
Lektor Mikael Lenz Strube
Lektor Elena Papaleo
Seniorforsker Kai Blin
Systemadministrator Peter Wad Sackett
Ph.d.-studerende Vahap Canbay

Water and Environment

Professor Barth F. Smets
Professor Peter Bauer-Gottwein
Professor Peter Steen Mikkelsen
Professor Stefan Trapp
Lektor Luca Vezzano
Lektor Massimo Rolle
Adjunkt Monica Garcia
Adjunkt Ursula S. McKnight
Postdoc Hongxiao Jin

Nanoscience

Lektor Andrei Laurynenka
Lektor emeritus Jørn Otto Bindslev Hansen

Social Sciences

Professor Jason Li-Ying
Professor Maja Horst

Food and Health

Professor Peter Ruhdal Jensen
Professor Paw Dalgaard

Publikationer

I 2021 er der udgivet 375 videnskabelige publikationer inden for rammerne af SDC. Nedenstående oversigt er baseret på søgninger i Web of Science samt Scopus.

Sustainable Energy

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Chang F., Zhang X., Zhan G., Duan Y., Zhang S. / Review of Methods for Sustainability Assessment of Chemical Engineering Processes, 2021, Industrial and Engineering Chemistry Research, vol 60, pp. 52-66

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Chen Y., Lin W., Wu H., Jensen P.A., Song W., Du L., Li S. / Steam gasification of char derived from penicillin mycelial dreg and lignocellulosic biomass: Influence of P, K and Ca on char reactivity, 2021, Energy, vol 228

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Yi F., Zhou T., Yu L., McCarl B., Wang Y., Jiang F., Wang Y. / Outdoor heat stress and cognition: Effects on those over 40 years old in China, 2021, Weather and Climate Extremes, vol 32

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Food and Health

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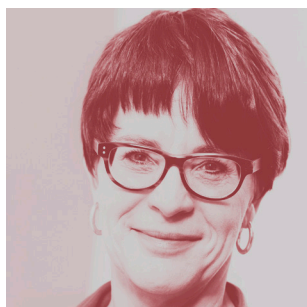
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