Mobile | RSS | Txt Airts | Email | Twitter | E-Edition

Jobs | Cars | Homes | Apartments | Classifieds | Celebrations | Dating | Deals | Place an Ad

ithacajournal.com

Forums State Hews

Recent Hews | Archives | Events | More #

SPONSORED BY: RapidDraft

HOME NEWS SPORTS BUSINESS VIEWPOINTS LIFE FAMILY ENTERTAINMENT OBITUARIES MULTIMEDIA WEATHER BUY/SELL CUSTOMER SERVICE Daily Email Blogs Schools Photos Videos

Comment, Blog & Share Photos Log in | Become a member | Search people

Nation/World Archives Good News

### \$99.67M powers rebound for Cornell research projects

Aid stands to get synchrotron back on beam

ADVERTISEMENT

BY LIZ LAWYER -ELAWYER@GANNETT.COM - OCTOBER 30, 2009, 7:00 PM

🕮 Print this page 🛛 🖾 E-mail this article 🚨 Share 🕐

1 | 2 | 3 | 4 Next Page

ITHACA -- For the past couple of years, National Science Foundation-funded research projects have been losing <u>funding</u>.



\$49 Ithaca Car Ins? 6/17: Obama backs new insurance regulation. Do you pay too much? Learn more

Ads by Adblade TM



'Six Sigma" Certification Enroll in Villanova University's prestigious six sigma certification program - 100% online... Learn more



Ithaca Airfare Deals? Save up to 50% off all your travel with this Free Travel Deals Newsletter. Get \$78 R/T US Flights! Learn more



Ithaca Refinancing News Refinance Rates at 4.25% FIXED! No Hidden Fees - 4.4% APR! Free Quotes. No SSN req. No Credit Check. Learn more



**Blood Pressure Miracle** Hugh Downs reports on breakthrough artery clearing secret. Learn more

research funds at Cornell University, this had a heavy impact. But with the delivery of federal stimulus money to the NSF and several other federal research institutions, that's changing. Thanks to increased funding from the NSF. National Institutes of Health, and federal Department of Energy, \$99.67 million is coming to Cornell this year.

Since the NSF is the foremost provider of

The Cornell High Energy Synchrotron Source is a prime example of a project that faced hard times. but is now moving forward again.

In addition to layoffs in early 2008, the lab's administrators have been forced to leave positions open as staff members leave and decrease the amount of time the underground radiation facility was running to save electric power costs. This caused work on dozens of research projects to go forward more slowly, said Ernie Fontes, senior research associate and assistant director of CHESS.

🖺 White House: Stimulus created or saved 40,620 jobs in N.Y.

Ithaca stimulus grants

The loss of support was due to flat funding for the synchrotron's primary supporter, the National Science Foundation, and a slow tapering off of work on the biggest project the synchrotron has been serving for the past several decades, a long-term, high-energy particle physics project that was the initial purpose behind the

synchrotron's construction in the 1960s, Fontes said. Demand for access to the synchrotron and ideas for new uses of the lab were unabated -- but financial support was foundering.

With the reinstatement of funding for the National Science Foundation, the top source of research dollars on Cornell's campus, through the stimulus act last February, the synchrotron has received several NSF grants totaling \$19 million, allowing three projects at the synchrotron to start hiring again. "Beam time," or operating time, also has increased due to NSF funding.

Even with those millions, Fontes said he does not expect to be able to bring staffing levels back up to where they were even two years ago, when the particle physics project began tapering off.

1 | 2 | 3 | 4 Next Page

POWERED BY CO PLUCK

In Your Voice READ REACTIONS TO THIS STORY

Newest first

Submit

Hide Comments A

You must be logged in to leave a comment. Login | Register

1000 characters left



POWERED BY YOU AND The Ithaca Journal

Purchase this Photo

The Wilson Lab synchrotron will receive money from federal stimulus funds that will increase funding for projects and increase staffing. From left, Assistant Director Ernie Fontes watches graduate student Jay Schuren who works with Professor Matthew Miller and graduate students Kevin McNelis and Zac Peeples to view the atomic structure of materials under stress using high energy x-rays generated by the synchrotron. (SIMON WHEELER / Staff Photo)

### BY THE NUMBERS

The stimulus bill's impact on research:

\* \$17 billion allotted for research, research infrastructure and

\* \$99.67 million in stimulus grants and loans to Cornell's thaca campus as of Oct. 12

\* Approximately \$3,571 million in externally-funded research at the Ithaca campus in the fiscal year ending in 2008

\* 121 awards to Cornell's Ithaca campus

\* 94.2 jobs created or retained due to stimulus at Cornell

On the Web

\* Government site with estimates of jobs created and saved in each state under the stimulus program: www.recovery.gov/?q=content/impact

\* Map of stimulus projects under way around the state: www.recovery.ny.gov/maps/arracertifiedprojectsmap.cfm

Related Topics

Politics - Department of Energy

Science/Technology - Physics

Contextual linking provided by Topix



### More Local News Headlines

90th Tompkins County Veterans parade will include flyover

Tompkins County Public Library offers club for teens 🔛 Wells College lecture explores multicultural education 🤛 SPCA of Tompkins County in urgent need of food 🤛 Today's Health Tip: Diabetes 🔜

ADS BY PULSE 360

Get Listed Here

Hot Stock Alert - EVSO

Solar Power Your Portfolio With Evolution Solar. Invest. www.EvolutionSolar.com

Ithaca Refinance at 4.25% FIXED!

No hidden fees! (4.4% APR) Get 4 FREE Quotes! No SSN regd. www.LendGo.com

Obama's School Stimulus Money \$\$\$ Get Financial Assistance and Go to School Online. Start Today!

ClassesAndCareers.com/Stimulus

Most Recommended Articles

Goddard well-qualified for job 💞 (16) Vote Goddard, Halton in Danby 💞 (11)

Deer shooting questioned

\$99.67M powers rebound for Cornell research projects

Groton wins title by easily knocking off Tioga 🛩 (17)

Most Commented Articles

Single-payer plan best 🔛 (24)

Offer public option 🔛 (23)

Robbery reported on Fayette Street 🔛 (20)

City of Ithaca seeks a business sponsor for repair of clock towers 🔛 (20)

Re-elect Rollins in Enfield P (18)



TriVantage EPO pays up to \$600 for fun & fitness.









Home | News | Sports | Business | Viewpoints | Life | Family | Entertainment | Obituaries | Multimedia | Weather | Buy/Sell | Customer Service | Site Map









Partners: Jobs: CareerBuilder.com Cars: Cars.com Apartments; Apartments.com Shopping: ShopLocal.com Homes: Homefinder.com

# ithacajournal.com

Recent Hews | Archives | Events | More #

HOME NEWS SPORTS BUSINESS VIEWPOINTS LIFE FAMILY ENTERTAINMENT OBITUARIES MULTIMEDIA WEATHER BUY/SELL CUSTOMER SERVICE Daily Email Blogs Schools Photos Videos Forums State News Hation/World Archives Good News

Comment, Blog & Share Photos

#### POWERED BY YOU AND The Ithaca Journal Log in | Become a member | Search people

Aid stands to get synchrotron back on beam

BY LIZ LAWYER -ELAWYER@GANNETT.COM - OCTOBER 30, 2009, 7:00 PM

Comments(0) 
✓Recommend(7)

\$99.67M powers rebound for Cornell research projects

🕮 Print this page 🛛 🖾 E-mail this article 🚨 Share 🕐

🧻 Previous Page 1 | 🙎 | 3 | 4 Next Page 🌓

(2 of 4)

"What will happen when the ARRA funds taper down has yet to be seen, but the funding levels of the NSF, NIH and others must continue to grow to realize the positive impact that science can have on the U.S. economy," he said.



New program can cut credit card debt by 50

card bailout?

discovered

ADVERTISEMENT



Muscle building miracle

Do you qualify for a credit



Financial aid available for adults returning to school



The Asian secret to strong, lush hair



New development builds ripped muscles legally

### Stimulus At Cornell

Cornell is by far the entity in Tompkins County that has received the most stimulus dollars. Of more than 170 grants or loans through ARRA, 121 were to Cornell.

Funds from the American Reinvestment and Recovery Act are supporting more than 100 projects at Cornell University, have created or saved 94 research and staff positions, and are subsidizing more than \$2 million in students' tuition costs.

Projects that have received stimulus support range from research on fruit fly genetics to cholesterol to superconductivity to biodiversity in South America.

### RELATED

White House: Stimulus created or saved 40,620 jobs in N.Y.

Ithaca stimulus grants

Nearly \$3 million in Pell Grant and federal work-study funds have also been made available to Cornell students through ARRA.

ARRA allots \$17 billion dollars for research, research infrastructure and education through federal agencies, including the National Science Foundation, the Department of Energy and the National Institutes of Health.

Total awards to Cornell now amount to more than \$99 million. In its first quarterly report to the

federal government in October, Cornell noted that ARRA funding created 19 new jobs and retained 75.2 jobs, including several part-time positions added together. Weill Cornell Medical College in New York earlier this month reported a total of 100 full-time jobs created and retained with 63 awards amounting to \$21.9 million.

\$371 million in the fiscal year ending in 2008. With nearly \$100 million additional research dollars coming to the campus, the research budget will see considerable impact.

Vice Provost for Research Bob Buhrman said externally funded research at the Ithaca campus came to

"We will definitely see an increase and it will extend several years," as the awards are disbursed over two to five years, Buhrman said.

### 'Good Science'

Buhrman said that due to a couple of years of flat federal funding to the National Science Foundation and National Institutes of Health, resulting in a decline in the purchasing power of their budgets, fewer projects could secure funding and the number with full funding was even lower. Before ARRA, only about 20 percent of all projects that submitted grant applications to NSF were accepted, Buhrman said.

🚺 Previous Page 1 | 2 | 3 | 4 Next Page 🚺

In Your Voice READ REACTIONS TO THIS STORY

Hide Comments A

Newest first

Submit

POWERED BY CO Pluck

You must be logged in to leave a comment. Login | Register

1000 characters left

Purchase this Photo

The Wilson Lab synchrotron will receive money from federal stimulus funds that will increase funding for projects and increase staffing. From left, Assistant Director Ernie Fontes watches graduate student Jay Schuren who works with Professor Matthew Miller and graduate students Kevin McNelis and Zac Peeples to view the atomic structure of materials under stress using high energy x-rays generated by the synchrotron. (SIMON  $\,$ WHEELER / Staff Photo)

#### BY THE NUMBERS

The stimulus bill's impact on research:

\* \$17 billion allotted for research, research infrastructure and

\* \$99.67 million in stimulus grants and loans to Cornell's Ithaca campus as of Oct. 12

\* Approximately \$3,571 million in externally-funded research at the Ithaca campus in the fiscal year ending in 2008

\* 121 awards to Cornell's Ithaca campus

\* 94.2 jobs created or retained due to stimulus at Cornell

On the Web

\* Government site with estimates of jobs created and saved in each state under the stimulus program: www.recovery.gov/?q=content/impact

\* Map of stimulus projects under way around the state: www.recovery.ny.gov/maps/arracertifiedprojectsmap.cfm

Related Topics

Politics - Department of Energy

Science/Technology - Physics

Contextual linking provided by Topix

Advanced Dental

GENERAL, COSMETIC, AND LASER DENTISTRY

OF ITHACA II, PLLC

**New Patients and Emergencies Welcome!** 



The gentle care you want, the personal attention

More Local News Headlines

90th Tompkins County Veterans parade will include flyover

Tompkins County Public Library offers club for teens 👨 Wells College lecture explores multicultural education 🤛 SPCA of Tompkins County in urgent need of food 🤛 Today's Health Tip: Diabetes 🔜

ADS BY PULSE 360

Get Listed Here

Hot Stock Alert - EVSO

www.EvolutionSolar.com

Solar Power Your Portfolio With Evolution Solar. Invest.

Ithaca Refinance at 4.25% FIXED! No hidden fees! (4.4% APR) Get 4 FREE Quotes! No.

SSN regd.

www.LendGo.com Obama's School Stimulus Money \$\$\$

Get Financial Assistance and Go to School Online. Start Today!

ClassesAndCareers.com/Stimulus

Most Recommended Articles Goddard well-qualified for job 💞 (16)

Vote Goddard, Halton in Danby < (11)

Deer shooting questioned (7)

\$99.67M powers rebound for Cornell research projects

Groton wins title by easily knocking off Tioga 🛩 (17)

Most Commented Articles

Single-payer plan best 🔛 (24)

Offer public option 🔛 (23)

Robbery reported on Fayette Street 🔛 (20) City of Ithaca seeks a business sponsor for repair of

clock towers 🔛 (20)

Re-elect Rollins in Enfield P (18)



















Partners: Jobs: CareerBuilder.com Cars: Cars.com Apartments: Apartments.com Shopping: ShopLocal.com Homes: Homefinder.com Home | News | Sports | Business | Viewpoints | Life | Family | Entertainment | Obituaries | Multimedia | Weather | Buy/Sell | Customer Service | Site Map

Mobile | RSS | Txt Alrts | Email | Twitter | E-Edition

HOME NEWS SPORTS BUSINESS VIEWPOINTS LIFE FAMILY ENTERTAINMENT OBITUARIES MULTIMEDIA WEATHER BUY/SELL CUSTOMER SERVICE

Recent Hews | Archives | Events | More #

SPONSORED BY: RapidDraft

Daily Email Blogs Schools Photos Videos Forums State News Nation/World Archives Good News Get Published

Comment, Blog & Share Photos

## \$99.67M powers rebound for Cornell research projects

Log in | Become a member | Search people

Aid stands to get synchrotron back on beam

BY LIZ LAWYER -ELAWYER@GANNETT.COM - OCTOBER 30, 2009, 7:00 PM

Comments(0) 
✓Recommend(7)

🕮 Print this page 💮 💌 E-mail this article 🚨 Share 🎅

(3 of 4)

Previous Page 1 | 2 | 3 | 4 Next Page

"There's much good science, very important work -- it's just not receiving support," he said.

ADVERTISEMENT Lifestyle Articles by: ARA lifestyle.com New program can cut credit card debt by 50 percent

Do you qualify for a credit

card bailout?



Muscle building miracle



Financial aid available for adults returning to school



The Asian secret to strong, lush hair



New development builds ripped muscles legally

Since the flood of stimulus support, many more projects are getting that support. Many of the research projects receiving funding at Cornell are new, while others are ongoing, Buhrman said. Stimulus funding saved some projects from ending prematurely.

"Some (projects) were in danger of being terminated because the NSF budget was not going to allow them to continue. There are new projects ... that would not have started, while others may not have continued. And others are now able to continue at a faster pace," because they could hire a new researcher, Buhrman said.

One project that was short-staffed before getting an NSF grant backed by ARRA is headed by Matt Miller, professor of mechanical and aerospace engineering.

RELATED

White House: Stimulus created or saved 40,620 jobs in N.Y.

Ithaca stimulus grants

Miller and a brigade of grad students are examining the way cracks form in material at the most basic levels. Typically, they study structural materials such as alloys of titanium, aluminum and steel to understand how defects initiate in structures such as aircraft and automobiles during use. In this project, they are analyzing why cracks form in the production of aluminum nitride, used as a semi-conductor in electronics.

Miller hopes his research will result in the

capability to produce single crystals of aluminum nitride for semi-conductors without microscopic cracks.

Due to the limits of the funding he originally received, Miller had to reduce the scope of his research. Now his project has received a \$300,000 NSF grant, it's possible to support one of his researchers for a longer period and complete all the experiments he wants to do in the project.

"It's pretty common to ask for a certain amount of money and only get a portion of it," Miller said. With the stimulus funding, Miller's program manager at NSF has been able to "take projects that had been ranked highly and give them full funding."

### Job Creation

The purpose of ARRA, as stated in the act, is to "(make) supplemental appropriations for job preservation and creation, infrastructure investment, energy efficiency and science, assistance to the unemployed, and state and local fiscal stabilization.

Previous Page 1 | 2 | 3 | 4 Next Page

In Your Voice | READ REACTIONS TO THIS STORY

Hide Comments A

Newest first

Submit

POWERED BY COPLUCK

You must be logged in to leave a comment. Login | Register

1000 characters left



POWERED BY YOU AND The Ithaca Journal

Purchase this Photo

The Wilson Lab synchrotron will receive money from federal stimulus funds that will increase funding for projects and increase staffing. From left, Assistant Director Ernie Fontes watches graduate student Jay Schuren who works with Professor Matthew Miller and graduate students Kevin McNelis and Zac Peeples to view the atomic structure of materials under stress using high energy x-rays generated by the synchrotron. (SIMON WHEELER / Staff Photo)

### BY THE NUMBERS

The stimulus bill's impact on research:

\* \$17 billion allotted for research, research infrastructure and

\* \$99.67 million in stimulus grants and loans to Cornell's Ithaca campus as of Oct. 12

\* Approximately \$3,571 million in externally-funded research at the Ithaca campus in the fiscal year ending in 2008

\* 121 awards to Cornell's Ithaca campus

\* 94.2 jobs created or retained due to stimulus at Cornell

On the Web

\* Government site with estimates of jobs created and saved in each state under the stimulus program: www.recovery.gov/?q=content/impact

\* Map of stimulus projects under way around the state: www.recovery.ny.gov/maps/arracertifiedprojectsmap.cfm

Related Topics

- Politics Department of Energy
- Science/Technology Physics

Contextual linking provided by Topix



More Local News Headlines

90th Tompkins County Veterans parade will include flyover

Tompkins County Public Library offers club for teens 🔛 Wells College lecture explores multicultural education 🤛 SPCA of Tompkins County in urgent need of food 🤛 Today's Health Tip: Diabetes 🔜

ADS BY PULSE 360

Get Listed Here

Hot Stock Alert - EVSO

www.EvolutionSolar.com

Solar Power Your Portfolio With Evolution Solar. Invest.

Ithaca Refinance at 4.25% FIXED!

No hidden fees! (4.4% APR) Get 4 FREE Quotes! No SSN regd. www.LendGo.com

Obama's School Stimulus Money \$\$\$ Get Financial Assistance and Go to School Online. Start Today!

ClassesAndCareers.com/Stimulus

Most Recommended Articles

Goddard well-qualified for job 💞 (16) Vote Goddard, Halton in Danby 💞 (11)

Deer shooting questioned

\$99.67M powers rebound for Cornell research projects

Groton wins title by easily knocking off Tioga 🛩 (17)

Most Commented Articles

Single-payer plan best 🔛 (24)

Offer public option 🔛 (23) Robbery reported on Fayette Street 🔛 (20)

City of Ithaca seeks a business sponsor for repair of

clock towers 🤛 (20)

Re-elect Rollins in Enfield P (18)



Rent Movies From Netflix Only \$899 a month

No late fees Free shipping

FREE Trial



Terms of Service | Privacy Policy | Contact Us | Work for Us | Subscribe















Partners: Jobs: CareerBuilder.com Cars: Cars.com Apartments; Apartments.com Shopping: ShopLocal.com Homes: Homefinder.com

Home | News | Sports | Business | Viewpoints | Life | Family | Entertainment | Obituaries | Multimedia | Weather | Buy/Sell | Customer Service | Site Map

GANNETT NEW YORK NETWORK: Binghamton | Elmira | Ithaca | Poughkeepsie | Rochester | Westchester | WGRZ-TV, Buffalo

your agreement to the Terms of Service and Privacy Policy , updated March

Mobile | RSS | Txt Alrts | Email | Twitter | E-Edition

Jobs | Cars | Homes | Apartments | Classifieds | Celebrations | Dating | Deals | Place an Ad

ithacajournal.com

Recent Hews | Archives | Events | More #

SPONSORED BY: **PLAY** 

HOME NEWS SPORTS BUSINESS VIEWPOINTS LIFE FAMILY ENTERTAINMENT OBITUARIES MULTIMEDIA WEATHER BUY/SELL CUSTOMER SERVICE Daily Email Blogs Schools Photos Videos Forums State News Hation/World Archives Good News

Comment, Blog & Share Photos Log in | Become a member | Search people

### \$99.67M powers rebound for Cornell research projects

Aid stands to get synchrotron back on beam

BY LIZ LAWYER -ELAWYER@GANNETT.COM - OCTOBER 30, 2009, 7:00 PM

Comments(0) 
✓Recommend(7)

🕮 Print this page 🛛 🖾 E-mail this article 🚨 Share 🕐

Previous Page 1 | 2 | 3 | 4

(4 of 4)

Scientific research projects are still being chosen primarily on the basis of what would be the best research, Buhrman said, but the agencies are putting more of an emphasis on job creation and research that would create economic growth.

Lifestyle Articles by. ARAlifestyle.com New program can cut credit card debt by 50

Do you qualify for a credit

percent

card bailout?



Muscle building miracle discovered



adults returning to school

Financial aid available for



The Asian secret to strong, lush hair



New development builds ripped muscles legally

"They are disbursing the money essentially as they normally do, with an emphasis on job creation and things that would grow the economy, including improving health," he said. "(Jobs created) is generally a component that you have to put in a research proposal. As far as we can understand -- and we're pretty confident it is the case -- the main criteria is which is the best research. But it's important in writing these grants that attention be paid to how the projects would save or create jobs."

When the stimulus bill was still in the works, members of the scientific community pushed for support for research and the training of new scientists, Fontes said.

"We need to train more scientists and engineers," Fontes said. "Science is really a driver of the economy. Companies (in the United States) often have no option but to hire people from other countries because there aren't enough grads in the U.S. Call it a pipeline problem ... We need minds doing the work."

RELATED

- White House: Stimulus created or saved 40,620 jobs in N.Y.
- Ithaca stimulus grants

Previous Page 1 | 2 | 3 | 4

In Your Voice READ REACTIONS TO THIS STORY

Hide Comments A

Newest first

Submit

POWERED BY 🛟 Pluck

You must be logged in to leave a comment. Login | Register

1000 characters left

POWERED BY YOU AND The Ithaca Journal

Purchase this Photo

The Wilson Lab synchrotron will receive money from federal stimulus funds that will increase funding for projects and increase staffing. From left, Assistant Director Ernie Fontes watches graduate student Jay Schuren who works with Professor Matthew Miller and graduate students Kevin McNelis and Zac Peeples to view the atomic structure of materials under stress using high energy x-rays generated by the synchrotron. (SIMON WHEELER / Staff Photo)

### BY THE NUMBERS

The stimulus bill's impact on research:

- \* \$17 billion allotted for research, research infrastructure and
- \* \$99.67 million in stimulus grants and loans to Cornell's Ithaca campus as of Oct. 12
- \* Approximately \$3,571 million in externally-funded research at the Ithaca campus in the fiscal year ending in 2008
- \* 121 awards to Cornell's Ithaca campus
- \* 94.2 jobs created or retained due to stimulus at Cornell

On the Web

- \* Government site with estimates of jobs created and saved in each state under the stimulus program: www.recovery.gov/?q=content/impact
- \* Map of stimulus projects under way around the state: www.recovery.ny.gov/maps/arracertifiedprojectsmap.cfm

Related Topics

- Politics Department of Energy
- Science/Technology Physics

Contextual linking provided by Topix



Web Site Design Social Networking

 Content Management Web 2.0 Interactivity
Online Stores Call for Your FREE

(607) 280-2010 www.GorgesWebSites.com



More Local News Headlines

90th Tompkins County Veterans parade will include flyover

Tompkins County Public Library offers club for teens 🔛 Wells College lecture explores multicultural education 🤛 SPCA of Tompkins County in urgent need of food 🤛 Today's Health Tip: Diabetes 🔜

ADS BY PULSE 360

Get Listed Here

Hot Stock Alert - EVSO

Solar Power Your Portfolio With Evolution Solar. Invest. www.EvolutionSolar.com

Ithaca Refinance at 4.25% FIXED!

No hidden fees! (4.4% APR) Get 4 FREE Quotes! No SSN read. www.LendGo.com

Obama's School Stimulus Money \$\$\$ Get Financial Assistance and Go to School Online.

Start Today! ClassesAndCareers.com/Stimulus

Most Recommended Articles

Goddard well-qualified for job 💉 (16) Vote Goddard, Halton in Danby < (11)

Deer shooting questioned / (7)

\$99.67M powers rebound for Cornell research projects

Groton wins title by easily knocking off Tioga 🛩 (17)

Most Commented Articles

Single-payer plan best 🔛 (24)

Offer public option 🔛 (23)

Robbery reported on Fayette Street 🔛 (20)

City of Ithaca seeks a business sponsor for repair of clock towers 🔛 (20)

Re-elect Rollins in Enfield P (18)

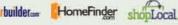
















Partners: Jobs: CareerBuilder.com Cars: Cars.com Apartments: Apartments.com Shopping: ShopLocal.com Homes; Homefinder.com Home | News | Sports | Business | Viewpoints | Life | Family | Entertainment | Obituaries | Multimedia | Weather | Buy/Sell | Customer Service | Site Map