

How does UNC-Chapel Hill make an economic and social impact in Orange County?

IT STARTS WITH AN IMPORTANT



TALENT | INNOVATION | PLACE

Talent

DEVELOP HUMAN CAPITAL AND THE FUTURE WORKFORCE

3,599 STUDENTS
UNDERGRAD AND GRAD STUDENTS FROM ORANGE COUNTY ATTEND UNC (FALL 2017)

567 MEDICAL STUDENT ROTATIONS COORDINATED AT AREA HOSPITALS (FALL 2017)

9 REGIONAL HEALTH CARE CENTERS ACROSS NC
NORTH CAROLINA AREA HEALTH EDUCATION CENTERS (HQ AT UNC-CHAPEL HILL)

2,829 HEALTH CARE PROVIDERS TRAINED IN ORANGE COUNTY (2017)

Citizens and Local Government

8,234 CONTACTS WITH ORANGE COUNTY CITIZENS AND OFFICIALS BY THE UNC SCHOOL OF GOVERNMENT IN 2017

- Courses
- Publications
- NC Benchmarking Project
- Advising Projects
- Civic Education
- Teaching Sessions
- Environmental Finance Projects

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

391 UNC RESEARCH AND SERVICE PROJECTS TOUCH ORANGE COUNTY (2016)

Improving Health in Low-Income Countries
MEASURE EVALUATION PROJECT CAROLINA POPULATION CENTER (SINCE 2017)

\$232M IN RESEARCH FUNDING FROM USAID

50 COUNTRIES AND REGIONS SERVED

100+ RESEARCHERS EMPLOYED IN ORANGE COUNTY

- Help developing countries use data to improve health
- Reduce malaria and HIV transmission
- Improve maternal and newborn health

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

Fighting Cancer with Nanotechnology
CAROLINA CENTER OF CANCER NANOTECHNOLOGY EXCELLENCE

\$11M IN FUNDING FROM NATIONAL CANCER INSTITUTE (2015-2017)

4 FUNDED STUDIES ON USING NANOTECHNOLOGY TO FIGHT CANCER

8 UNC DEPARTMENTS COLLABORATING ACROSS DISCIPLINES

- Using nanoparticles to create cancer vaccines and improve drug delivery
- Fighting advanced and drug-resistant melanoma
- Improving patient responses to cancer drugs

Inventing the Solar Fuels of Tomorrow
UNC ENERGY FRONTIER RESEARCH CENTER: CENTER FOR SOLAR FUELS

\$10M IN FUNDING FROM U.S. DEPARTMENT OF ENERGY (2012-14)

10,000x THE WORLD'S DAILY ENERGY NEEDS ARE PROVIDED BY THE SUN

20+ YEARS OF UNC DISCOVERIES USED TO CREATE FUELS FROM SUNLIGHT

- Research how to collect sunlight and convert it into storable solar fuels
- Create a solution for renewable, environmentally-friendly energy
- Combine expertise in chemistry, physics and materials sciences

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

Better Education for Students on the Autism Spectrum
FRANK PORTER GRAHAM CHILD DEVELOPMENT INSTITUTE CENTER ON SECONDARY EDUCATION FOR STUDENTS WITH AUTISM SPECTRUM DISORDER

\$8M IN FUNDING FROM U.S. DEPARTMENT OF EDUCATION (2013-16)

700+ STUDENTS AND FAMILIES WHO PARTICIPATED IN RESEARCH

60 SCHOOLS INVOLVED IN THE STUDY

- Developed a school- and community-based education program for students on the autism spectrum
- Conducted focus groups, pilot studies and a large-scale study in public high schools
- Created 20+ resources for students, families, educators, researchers and community members

UNC Startups on the Upswing

179 ACTIVE UNC STARTUPS IN ORANGE COUNTY

34 ACTIVE UNC SOCIAL STARTUPS IN ORANGE COUNTY

1,159 NORTH CAROLINA CITIZENS EMPLOYED BY UNC STARTUPS WITH HQ IN ORANGE COUNTY

\$299M IN REVENUE EARNED BY UNC STARTUPS IN ORANGE COUNTY (2017 DATA)

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

Ribometrix

CREATING SMALL-MOLECULE DRUGS THAT TARGET AND UNLOCK NEW DISEASE THERAPIES

\$7.5M IN SEED CAPITAL RAISED IN 2017

30K HUNTINGTON'S DISEASE PATIENTS MAY BENEFIT FROM THERAPIES

20 EMPLOYEES IN ORANGE COUNTY

CO-FOUNDED IN CARRBORO, NC BY UNC CHEMISTRY PROFESSOR
Kevin Weeks AND ALUMNA **Katie Warner**

[Read More](#) [RIBOMETRIX.COM](#)

Problem

DISEASE-CAUSING RNA PROTEINS PREVIOUSLY SEEN AS "UNDRUGGABLE"

Solution

TARGET RNA WITH SMALL-MOLECULE DRUGS TO OFFER NEW TREATMENTS

- New breakthrough approach to drug therapy
- Potentially new therapies for cancer, neurological disorders, immunological diseases and rare diseases
- Specialized approach may improve millions of lives

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

Falcon Therapeutics
CREATING PERSONALIZED STEM CELLS THAT FIGHT BRAIN TUMORS AND OTHER CANCERS

\$1.3M IN FUNDING RAISED SINCE 2015

220% INCREASE IN SURVIVAL TIME BASED ON MOUSE MODELS

8 EMPLOYEES IN ORANGE COUNTY

CO-FOUNDED IN CHAPEL HILL, NC BY UNC PHARMACY PROFESSOR
Shawn Hingtgen

[Read More](#) [FALCONTHERAPEUTICS.COM](#)

Problem

30 YEARS WITHOUT IMPROVEMENT IN SURVIVAL TIME FOR PATIENTS WITH GLOBLASTOMA BRAIN TUMORS (MEDIAN 18 MONTHS)

Solution

TURN A PERSON'S SKIN CELLS INTO STEM CELLS THAT HUNT DOWN BRAIN TUMOR REMAINS

- Promising new treatment for glioblastoma
- May increase survival time of patients by 160- to 220 percent (mouse models)
- Commercialize stem cell products and move them into clinical trials

Innovation

INFUSE RESEARCH, EXPERTISE AND ENTREPRENEURSHIP INTO THE COMMUNITY

MiracleFeet

CREATING TREATMENT CLINICS FOR CHILDREN BORN WITH CLUBFOOT

50,000 CHILDREN SUPPORTED BY 2020

122 CLINICS CREATED IN 24 COUNTRIES

31,000 LIVES TRANSFORMED AS OF 2018

1M CHILDREN SUFFERING FROM CLUBFOOT

FOUNDED IN CHAPEL HILL, NC BY UNC ALUMNA AND MOREHEAD SCHOLAR
Chelsea Colredo-Mansfield

[Read More](#) [MIRACLEFEET.ORG](#)

Problem

CLUBFOOT IS A COMMON BIRTH DEFECT THAT CAUSES ONE OR BOTH FEET TO TURN INWARD AND UPWARD

175,000 new cases of clubfoot each year globally

90 percent of children with clubfoot in low-income countries can't get proper treatment

Solution

PROVIDE TECHNICAL AND FINANCIAL SUPPORT TO CLINICS ACROSS THE WORLD

- Identify local partners
- Train health care workers in treatment methods
- Hire and train parent educators to increase treatment compliance
- Provide treatment supplies, including braces

Place

BUILD COMMUNITY-CONNECTED PARTNERSHIPS THAT IMPROVE HOW CITIZENS WORK AND LIVE

Seal the Seasons

IN FUNDING RAISED AS OF 2018

\$3.1M IN FUNDING RAISED AS OF 2018

CO-FOUNDED IN HILLSBOROUGH, NC BY UNC ALUMNUS
Patrick Materer

10 FULL- AND PART-TIME EMPLOYEES IN ORANGE COUNTY

20% OF PROFITS DONATED TO INCREASE ACCESS TO HEALTHY FOOD

900+ GROCERY STORES AND CO-OPS SELL THE PRODUCT

[Read More](#) [SEALTHESEASONS.COM](#)

Problem

FAMILY FARMS ARE DECLINING; MANY LOCAL COMMUNITIES CAN'T ACCESS HEALTHY FOOD

Solution

CREATE A NEW MARKET THAT CONNECTS LOCAL FARMERS TO CONSUMERS

- Flash-freeze local fruits and vegetables - a new way for small farms to sell produce
- Partner with retailers to increase treatment compliance
- Bring produce to market at an affordable price

Place

BUILD COMMUNITY-CONNECTED PARTNERSHIPS THAT IMPROVE HOW CITIZENS WORK AND LIVE

Musical Empowerment

PROVIDING FREE MUSIC LESSONS TO CHILDREN IN UNDERSERVED COMMUNITIES

UNC STUDENT ORGANIZATION FOUNDED IN CARRBORO, NC BY ALUMNA
Christine Moseley

200+ CHILDREN SERVED VIA MUSICAL EDUCATION

40-Min MUSIC LESSONS PROVIDED TO STUDENTS WEEKLY

\$0 CHARGE FOR MUSICAL INSTRUMENTS

[Read More](#) [MUSICAL-EMPOWERMENT.ORG](#)

Problem

CHILDREN IN LOCAL COMMUNITIES CAN'T ACCESS THE RESOURCES TO LEARN MUSIC

Solution

PAIR LOCAL CHILDREN WITH COLLEGE MENTORS FOR FREE, ONE-ON-ONE MUSIC LESSONS

- Partner with local elementary and middle schools to identify underserved students
- Connect students with mentors for weekly music lessons
- Provide free instruments for practice and performance

Place

BUILD COMMUNITY-CONNECTED PARTNERSHIPS THAT IMPROVE HOW CITIZENS WORK AND LIVE

Launch Chapel Hill

AWARD-WINNING BUSINESS ACCELERATOR AND CO-WORKING SPACE IN DOWNTOWN CHAPEL HILL

75 COMPANIES SUPPORTED SINCE 2013

1,124 JOBS CREATED, WITH 200+ IN ORANGE COUNTY SINCE 2013

\$12.9M IN COMPANY FUNDING RAISED IN 2017

\$20.6M IN COMPANY REVENUE EARNED IN 2017

[Read More](#) [LAUNCHCHAPELHILL.COM](#)

Challenge

BUILD MORE SCALABLE STARTUPS IN CHAPEL HILL AND ORANGE COUNTY

Solution

PARTNERSHIP BETWEEN UNC, TOWN OF CHAPEL HILL AND ORANGE COUNTY TO CREATE BUSINESS ACCELERATOR

- Offer bi-annual, 22-week program to grow high-impact, early-stage ventures
- Provide entrepreneurial workshops and pitch coaching
- Match companies with entrepreneur-in-residence mentors

Orange

A COMMUNITY SNAPSHOT

Employment

- EDUCATIONAL SERVICES (20,413 JOBS)
- HEALTH CARE AND SOCIAL ASSISTANCE (17,923 JOBS)
- RETAIL TRADE (6,671 JOBS)
- ACCOMMODATION AND FOOD SERVICE (6,512 JOBS)
- PROFESSIONAL AND TECHNICAL SERVICES (3,553 JOBS)

Top Five Orange County Industries by Jobs

75,490 LABOR FORCE

3.1% UNEMPLOYMENT RATE

53.7% OF ORANGE COUNTY CITIZENS ARE COLLEGE GRADUATES

#1 CONCENTRATION OF COLLEGE GRADUATES IN NORTH CAROLINA

#11 CONCENTRATION OF COLLEGE GRADUATES IN UNITED STATES

Workforce Education

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