**Appendices A and B**

Appendix A: Technical Review Panel (TRP) Members A-1

Appendix B: Confidentiality for Administrative Record Matching B-1

Appendix A
Technical Review Panel (TRP) Members

Technical Review Panel

Jeff Allum

Director, Research and Policy Analysis

Council of Graduate Schools

One Dupont Circle NW

Washington, DC 20036

 Phone: (202) 223-3791

 Email: jallum@cgs.nche.edu

Kevin Bastian

Director, Teacher Quality Research Initiative

University of North Carolina at Chapel Hill

504 East 63rd Street, Apartment 18S

New York, NY 10065

 Phone: (919) 698-6658

 Email: kbastian@email.unc.edu

Margaret Cahalan

Vice President for Research & Director,

 Council for Opportunity in Education

The Pell Institute

1025 Vermont Avenue NW

9th Floor

Washington, DC 20005

 Phone: (202) 347-7430

 Email: margaret.cahalan@pellinstitute.org

Ben Castleman

Assistant Professor of Education and Public Policy

University of Virginia, Curry School of Education

P.O. Box 400879

Charlottesville, VA 22904

 Phone: (434) 243-5419

 Email: castleman@virginia.edu

Amber Dumford

Research Analyst

Indiana University School of Education

1900 East Tenth Street

Suite 419

Bloomington, IN 47406

 Phone: (812) 856-1205

 Email: adlamber@indiana.edu

Charlotte Etier

Research Analyst

National Association of Student Financial Aid Administrators

1101 Connecticut Avenue NW

Suite 1100

Washington, DC 20036

 Phone: (202) 785-6943

 Email: etierc@nasfaa.org

Taylor Hansen

Senior Government Relations Associate

Association of Private Sector Colleges and Universities

1101 Connecticut Avenue NW

Suite 900

Washington, DC 20036

 Phone: (202) 336-6707

 Email: taylor.hansen@apscu.org

Don Heller

Dean, College of Education

Michigan State University

501 Erickson Hall, 620 Farm Lane

East Lansing, MI 48824

 Phone: (517) 355-1734

 Email: dheller@msu.edu

Gary Henry

Department of Leadership, Policy and Organization

Peabody College, Vanderbilt University

230 Appleton Place

PMB 414

Nashville, TN 37203

 Phone: (615) 322-0249

 Email: gary.henry@vanderbilt.edu

Brad Hershbein

Economist

W.E. Upjohn Institute for Employment Research

300 South Westnedge Avenue

Kalamazoo, MI 49007

 Phone: (269) 385-0437

 Email: hershbein@upjohn.org

Patrick Kelly

Senior Associate and Director

National Center for Higher Education Management Systems

3035 Center Green Drive

Suite 150

Boulder, CO 80301

 Phone: (720) 987-3391

 Email: patrick@nchems.org

Dongbin Kim

Associate Professor, Department of Educational Administration

Michigan State University

433 Erickson Hall, 620 Farm Lane

East Lansing, MI 48824

 Phone: (517) 353-9017

 Email: dbkim@msu.edu

Sarah Leibrandt

Project Coordinator

Western Interstate Commission for Higher Education

3035 Center Green Drive

Boulder, CO 80301

 Phone: (303) 541-0221

 Email: sleibrandt@wiche.edu

Christopher Nellum

Senior Policy Research Analyst

American Council on Education

One Dupont Circle NW

Suite 1B

Washington, DC 20036

 Phone: (202) 939-9405

 Email: cnellum@acenet.edu

Hironao Okahana

Director, Statistical Analysis and Policy Research

Council of Graduate Schools

One Dupont Circle NW

Suite 230

Washington, DC 20036

 Phone: (202) 696-1560

 Email: hokahana@cgs.nche.edu

Kent Phillippe

Associate Vice President, Research & Student Success

American Association of Community Colleges

One Dupont Circle NW

Suite 410

Washington, DC 20036

 Phone: (202) 416-4505

 Email: kphillippe@aacc.nche.edu

Brian Prescott

Director of Policy Research

Western Interstate Commission for Higher Education

3035 Center Green Drive

Suite 200

Boulder, CO 80301

 Phone: (303) 541-0255

 Email: bprescott@wiche.edu

Jason Ramirez

Director of Research and Policy Analysis

National Association of Independent Colleges and Universities

1025 Connecticut Avenue NW

Suite 700

Washington, DC 20036

 Phone: (202) 835-0003

 Email: jason@naicu.edu

Hal Salzman

Professor, Heldrich Center Workforce Development

Rutgers University

30 Livingston Avenue

Room 207

New Brunswick, NJ 08901

 Phone: (848) 932-1037

 Email: hsalzman@rutgers.edu

Matthew Soldner

Senior Researcher, Education Program

American Institutes for Research

127 West 10th Street

Suite 803

Kansas City, MO 64105

 Phone: (202) 403-5000

 Email: msoldner@air.org

Jeff Strohl

Director of Research

Georgetown University Center on Education

 and the Workforce

3300 White Haven

Suite 3200

Washington, DC 20007

 Phone: (202) 687-4945

 Email: js787@georgetown.edu

Rob Toutkoushian

Professor

University of Georgia, Institute of Higher Education

0114 Meigs Hall

106 Herty Drive

Athens, GA 30602

 Phone: (706) 542-0577

 Email: rtoutkou@uga.edu

Jonathan Turk

Policy Research Analyst

American Council on Education

One Dupont Circle NW

Suite 1B

Washington, DC 20036

 Phone: (202) 939-9321

 Email: jturk@acenet.edu

Mamie Voight

Director of Policy Research

Institute for Higher Education Policy

1825 K Street NW

Suite 720

Washington, DC 20006

 Phone: (202) 587-4967

 Email: mvoight@ihep.org

**Federal Panelists**

Xiaoling Ang

Economist, Office of Research

Consumer Financial Protection Bureau

1275 First Street NE

Suite 827-C

Washington, DC 20008

 Phone: (202) 435-7686

 Email: xiaoling.ang@cfpb.gov

Shane Ball

Operations Research Analyst

National Institute of Food and Agriculture,

 United States Department of Agriculture

4401 Waterfront Centre

800 9th Street SW

Washington, DC 20024

 Phone: (202) 720-1973

 Email: sball@nifa.usda.gov

Jeffrey Groen

Director, National Longitudinal Surveys

U.S. Bureau of Labor Statistics

2 Massachusetts Avenue NE

Suite 4945

Washington, DC 20212

 Phone: (202) 691-7392

 Email: groen.jeffrey@bls.gov

Nirmala Kannankutty

Acting Deputy Division Director,

 Division of Graduate Education

National Science Foundation

4201 Wilson Boulevard

Suite 875

Arlington, VA 22230

 Phone: (703) 292-7797

 Email: nkannank@nsf.gov

Rochelle Martinez

Statistician

Office of Management and Budget

725 17th Street, NW

Room 10202 NEOB

Washington, DC 20503

 Phone: (202) 395-3147

 Email: rochelle\_w.\_martinez@omb.eop.gov

John Mingus

Assistant Director

U.S. Government Accountability Office

441 G Street NW

Washington, DC 20548

 Phone: (202) 512-4987

 Email: mingusj@gao.gov

Noah Mann

Program Examiner

Office of Management and Budget

725 17th Street NW

Washington, DC 20503

 Phone: (202) 395-3256

 Email: Noah\_S\_Mann@omb.eop.gov

Daniel Pollard

Senior Advisor, Enterprise Data

U.S. Department of Education, FSA

830 First Street NE

Washington, DC 20202

 Phone: (202) 377-3389

 Email: daniel.pollard@ed.gov

Emilda Rivers

Program Director

National Science Foundation

4201 Wilson Boulevard

Suite 965 S

Arlington, VA 22230

 Phone: (703) 292-7773

 Email: erivers@nsf.gov

Robert Sivinski

Statistician

Office of Management and Budget

725 17th Street NW

Washington, DC 20503

 Phone: (202) 395-1205

 Email: robert\_g\_sivinski@omb.eop.gov

David Smole

Specialist in Education Policy

Congressional Research Service

101 Independence Avenue SE

Mail Stop 7440

Washington, DC 20540

 Phone: (202) 707-0624

 Email: dsmole@crs.loc.gov

**U.S. Department of Education, NCES**

Peggy Carr

Acting Commissioner

U.S. Department of Education, NCES

1990 K Street NW

Room 8095

Washington, DC 20006

 Phone: (202) 502-7414

 Email: peggy.carr@ed.gov

Chris Chapman

Acting Associate Commissioner, Sample Surveys Divisions

U.S. Department of Education, NCES

1990 K Street NW

Room 9042

Washington, DC 20006

 Phone: (202) 502-7321

 Email: chris.chapman@ed.gov

Elise Christopher

Project Officer, ELS:2002 & HSLS:09

U.S. Department of Education, NCES

1990 K Street NW

Room 9026

Washington, DC 20006

 Phone: (202) 502-7899

 Email: elise.christopher@ed.gov

Tracy Hunt-White

Education Statistician

U.S. Department of Education, NCES

1990 K Street NW

Room 9018

Washington, DC 20006

 Phone: (202) 502-7438

 Email: tracy.hunt-white@ed.gov

Kashka Kubzdela

OMB Liaison

U.S. Department of Education, NCES

1990 K Street NW

Room 9014

Washington, DC 20006

 Phone: (202) 502-7411

 Email: kashka.kubzdela@ed.gov

David Richards

Project Officer, BPS:12/14 & BPS:12/17

U.S. Department of Education, NCES

1990 K Street NW

Room 9030

Washington, DC 20006

 Phone: (202) 502-7395

 Email: david.richards@ed.gov

Marilyn Seastrom

Chief Statistician

U.S. Department of Education, NCES

1990 K Street NW

Room 9047

Washington, DC 20006

 Phone: (202) 502-7303

 Email: marilyn.seastrom@ed.gov

Sean Simone

Statistician

U.S. Department of Education, NCES

1990 K Street NW

Room 9027

Washington, DC 20006

 Phone: (202) 502-7367

 Email: sean.simone@ed.gov

Ted Socha

Mathematical Statistician

U.S. Department of Education, NCES

1990 K Street NW

Room 9028

Washington, DC 20006

 Phone: (202) 502-7383

 Email: ted.socha@ed.gov

**RTI International**

Lesa Caves

Research Education Analyst

RTI International

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 990-8312

 Email: lcaves@rti.org

Jen Cooney

Research Statistician

RTI International

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 485-5570

 Email: jgratton@rti.org

Natasha Janson

Director, B&B:16/17

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 316-3394

 Email: njanson@rti.org

T. Austin Lacy

Research Education Analyst

RTI International

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 990-8386

 Email: tlacy@rti.org

Emilia Peytcheva

Research Survey Methodologist

RTI International

3005 Boardwalk Street

Suite 105

Ann Arbor, MI 48108

 Phone: (734) 213-6159

 Email: epeytcheva@rti.org

Sandra Staklis

Research Education Analyst

RTI International

1618 SW First Avenue

Suite 300

Portland, OR 97201

 Phone: (503) 428-5676

 Email: sstaklis@rti.org

Nicole Tate

Research Education Analyst

RTI International

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 316-3357

 Email: ntate@rti.org

Jennifer Wine

Director, NPSAS:16

RTI International

3040 East Cornwallis Road

P.O. Box 12194

Research Triangle Park, NC 27709

 Phone: (919) 541-6870

 Email: jennifer@rti.org

Appendix B
Confidentiality for Administrative Record Matching

B.1 Develop Linkages with Administrative Data Sources

Linkages will be developed with existing data sources to supplement the 2016/17 Baccalaureate and Beyond Longitudinal Study (B&B:16/17) during both the field test (2016) and full-scale (2017) collections. NCES recognizes the great value added to the B&B:16/17 data file with the addition of data from specific administrative data sources as certain data, such as specific financial aid amounts and associated dates, can only be accurately obtained from sources other than the student. Our postsecondary studies, including the National Postsecondary Student Aid Study (NPSAS) and the Beginning Postsecondary Students Study (BPS), have included file merges with many existing sources of valuable data, including Department of Education’s (ED) Central Processing System (CPS) for Free Application for Federal Student Aid (FAFSA) data, the National Student Loan Data System (NSLDS), and National Student Clearinghouse (NSC). For this study, we plan to perform file merges with the following datasets: CPS, NSLDS, and NSC. We are reviewing the possibility of matching to other administrative data sources in the full-scale study.

As described in more detail in Section A.10 of the Supporting Statement Part A, which is a part of this request, the Family Educational Rights and Privacy Act (FERPA) (34 CFR Part 99) allows the disclosure of information without prior consent for the purposes of B&B:16/17 according to 34 CFR § 99.31.

**Secure Data Transfers.** NCES has set up a secure data transfer system, using the NCES member site with Secure Sockets Layer (SSL) technology. The contractor will use this electronic system for submitting data containing potentially identifying information (such as SSNs, names, and dates of birth of our sample members) along with their survey ID (not the same ID that is available on the restricted-use data). Before being transmitted, files will be encrypted using FIPS 140-2 validated encryption tools. Data will be received from the NCES system as well. The system requires that both parties to the transfer be registered users of the NCES Members Site and that their Members Site privileges be set to allow use of the secure data transfer service as described above. This process will be used for file matching procedures described below, except in instances when the vendor already has a secure data transfer system in place.

B.2 File Merge with ED Central Processing System (CPS)

File merges will be performed by the data collection contractor with the CPS data containing federal student aid application information. The merge with CPS can occur at any time for any number of cases, provided that the case has an apparently valid SSN associated with it. A file will be sent to CPS and in return a large data file containing all matched students who applied for federal aid will be received. The data collection contractor has programs and procedures in place to prepare and submit files according to rigorous CPS standards, and to receive and process data obtained from CPS.

A file will be electronically uploaded on the FAFSA secure web-site for matching which contains SSN and the first 2 letters of the sample member’s last name (but no other information). Access to the site for the upload is restricted to authorized users who are registered and provide identification/authentication information (user name and password) to the FAFSA data site. The file is retrieved by the Central Processing System or CPS (the FAFSA contractor data system) for linkage. The linked file, containing student aid applications for matched records, is then made available to us only through a secure connection (EdConnect) which also requires user name and password. All CPS files will be processed, edited, and documented for inclusion in the final restricted use file (RUF).

B.3 File Merge with National Student Loan Data System (NSLDS) Disbursement

A file merge will be conducted with the NSLDS to collect federal loan and Pell grant data. The resulting file will contain cumulative amounts for each student’s entire postsecondary education enrollment. NCES has set up a secure data transfer system that uses their NCES member site and Secure Sockets Layer (SSL) technology. The system requires that both parties to the transfer be registered users of the NCES Members Site and that their Members Site privileges be set to allow use of the secure data transfer service. These privileges are set up and carefully controlled by the ED’s Institute of Education Sciences (IES) NCES Chief Technology Officer (CTO), a service designed by ED/NCES specifically for the secure transfer of electronic files containing personally identifying information (i.e., data protected under the Privacy Act or otherwise posing risk of disclosure), and can be used for NCES-to-Contractor; Contractor-to-Subcontractor; Subcontractor-to-Contractor; and Contractor-to-Other-Agency data transfers. The party uploading the information onto the secure server at NCES is responsible for deleting the file(s) after the successful transfer has been confirmed. Programs have been developed to create the files for the merge and also to read the data received. All matching processes are initiated by the data collection staff providing a file with one record per sample member to be merged.

B.4 File Merge with the National Student Clearinghouse (NSC)

The NSC will be used to obtain the *Student Tracker* data on institutions attended, enrollment dates, and degree completions for the B&B:16/17 sample.

The data collection contractor will first set up an account with the Clearinghouse which will enable sending and receiving of files securely over encrypted FTPS connections. The file containing sensitive student identifiers (name, date of birth, and SSN) will be encrypted using FIPS 140-2 validated encryption tools then submitted to the Clearinghouse using their secure FTP site. All files received by the Clearinghouse will be securely stored using FIPS 140-2 validated AES encryption, the US federal encryption standard. Matched files, containing data on enrollment dates, institution names, and degrees completed, will be returned to the data collection contractor using the same secure FTP site.

B.5 Processing Administrative Data

We propose to send files for matching during data collection. We may need to match to a source (e.g., CPS or NSLDS) more than once during the full-scale study.

The data from all of these sources, as allowed by the vendor, will be delivered for inclusion on the RUF and will be useful for creating derived variables. The derived variables will be available on PowerStats and QuickStats, and both direct-pull and derived variables will be documented thoroughly. Data from CPS will also be useful for purposes of locating the sample.